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BULLETIN

of the

AMERICAN IRIS SOCIETY

NUMBER 184

JANUARY 1967

PRINTED IN TWO SECTIONS

• SECTION I

SEE YOU IN DENVER

1967 Convention of The American Iris Society

Meeting Dates: Starts 1:00 P.M., Wednesday, May 31
Ends with banquet, Saturday, June 3

Mail Registrations to:

Everett L. Cline
991 South Columbine St.
Denver, Colorado 80209

Registration Fee:

Before May 1, 1967	\$37.00
After May 1, 1967	\$42.00

Principal convention garden in Denver at Denver Botanic Gardens, with approximately 1000 different irises in one garden. Supplemental gardens at Boulder, Colorado Springs and Fort Collins.

**CONVENTION HEADQUARTERS:
COSMOPOLITAN HOTEL**

THE BULLETIN *of the* AMERICAN IRIS SOCIETY

NO. 184

JANUARY 1967

EDITORIAL STAFF

J. Arthur Nelson, *Editor*

Kay N. Negus, *Assistant Editor*

3131 North 58th St., Omaha, Nebr. 68104

Associate Editor

Mrs. Peggy Burke Grey, 8191 Franz Valley Road, Calistoga, Calif. 94515

Bulletin Representatives

MEDIAN IRIS SOCIETY

Mrs. F. W. Warburton, R. 2, Box 541, Westboro, Mass. 01581

THE SOCIETY FOR SIBERIAN IRISES

Mrs. Foster Spofford, 19 Everett St., Beverly Farms, Mass. 01920

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Mrs. Stayton Nunn, 11122 Claymore Drive, Houston, Texas 77024

SOCIETY FOR JAPANESE IRISES

Mrs. Troy Westmeyer, 60 Gary Road, Stamford, Conn. 06903

The *Bulletin* is published quarterly by The American Iris Society. Publishing office, 2237 Tower Grove Blvd., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2237 Tower Grove Blvd., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see page 3.

The *Bulletin* is printed by The Williams Printing Company, Nashville, Tenn.

THE AMERICAN IRIS SOCIETY

A non-profit institution incorporated Feb. 2, 1927, in the County of Philadelphia, State of Pennsylvania. By the terms of the Charter, the Corporation has no stockholders and exists for the sole purpose of promoting the culture and improvement of the IRIS.

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COVER: The cover for the January BULLETIN is that of four medians which have won places in American iris gardens. (Photo courtesy of Schreiner's Gardens.)

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The conditions under which a special-interest group may become a Section for AIS are—

1. The American members of the society must be members of AIS.
2. Its bylaws must be approved by the AIS.
3. Participation in the AIS registration and award systems is required.
4. Provision for publication of articles of general interest, exclusive of newsletters, may be arranged.

The president of a Section is a member of the AIS Board of Counselors, and societies having Sectional status will be listed in the AIS *Bulletin*.

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The conditions under which a state or local iris society may become an Affiliate of AIS are—

1. Its officers and directors must be members of AIS.
2. Participation in the AIS registration and award system is required.
3. Societies having less than 50 percent of their members belonging to AIS, and meeting the other conditions, will be required to pay an *annual* fee of \$25.00.

The names of societies given Affiliate status will be published in the AIS *Bulletin*.

Inquiries and applications for affiliation should be addressed to Mr. Edward E. Varnum, 550 So. Princeton Ave., Villa Park, Ill. 60181.

TO SECRETARIES OF AFFILIATES: Please report promptly the names and addresses of new presidents to the Editor as well as to Mr. Varnum.

From the President's Desk

FISCHER BEGINS SECOND TERM AS PRESIDENT



Photo courtesy Joe Gatty

AT THE Board meeting in Denver on November 5th and 6th, Past Presidents Carney, Rogers and Walker and all Directors were in attendance except Bartholomew, who has served the Society so long and faithfully as Director of the Robin Program. Because of ill health he has requested to be relieved of that position, but will continue as chairman of the Robin Committee and stay on as a Board member until his term expires in 1967. A new appointment for Director of the Robin Program is under consideration and will be confirmed as soon as possible. A vote of thanks and appreciation was given to John for his splendid work in guiding the Robin Program to its important position in the Society.

We were pleased to have present at the meeting the chairman of the

Scientific committee, Herbert Parker, who gave his report in person. He was in agreement with the request by Roy Davidson, the chairman of the newly formed Species committee, that the group work with and be part of the Scientific committee.

Mrs. Elizabeth H. Rowe was confirmed as chairman of the Youth committee. In her comprehensive report were outlined recommendations for a Junior group within AIS with a nominal fee, a booklet for the Junior grower, a Junior Robin, show awards, symposium for their favorite selections, space in the BULLETIN, etc. Much time and thought has been spent, and a great deal of correspondence, in order to accumulate the information for this program; and I hope that a program can be activated, as other plant societies have been successful with such plans.

Joe Gatty was confirmed as chairman of the Publicity and Public Relations committee, with Miss Ruth Rees continuing as consultant. We have been lacking in publicity in the past and this important committee will need the cooperation of all of the Regional Vice Presidents, Affiliates and Sections, and all should be represented.

Our Historian, Helen McCaughey, reports that the tape recorder is in the East, where some of the old time members are recording their early experiences and history of the Society. Another recorder will be available in the St. Louis office for the same purpose. Much interesting information will be made available in this way for future use.

Bob Schreiner is still asking for slides for his program. Now is a good time to select a few good ones from your best and send them on to him. A vote of thanks was voted for the slides sent in of the Newark convention from Region 19.

It was a great relief when Art Nelson announced that he intended to continue his multiple duties. Without the continued dedicated work by him and his daughter, Kay, we would indeed face problems not easily or quickly resolved. I wish to take this opportunity to state my appreciation to all of the Board members and committees who have been such great help in this, my first year as President.

All committees made full reports and details are in the minutes elsewhere. The Treasurer's report shows that we are operating within our income, but unfortunately it is the earnings from the reserve fund that have prevented us from showing a deficit. In order to continue the quality of the BULLETINS and the services to members, we must increase our membership or consider raising dues. It is hope that increased membership in the coming year will help cover the increasing cost of operating.

The Special Awards committee recommended that the Distinguished Service Medal be awarded to Dr. Philip A. Loomis for his many years of breeding and general interest in irises. The Hybridizer's Medals were voted to Walker Ferguson for his outstanding work with the spuria iris, to Mrs. W. J. Hinkle for her breeding in the tall bearded class and to Bee Warburton for her breeding success in the median class. Congratulations for those well deserved honors. It is gratifying to see the recognition go to the various classes, and I hope the trend will continue. Another medal was authorized, the Mable F. Johnson Memorial Medal, which will be presented to all Eric Nies Award winners.

While it has been a rather difficult year in many ways, both physically and garden-wise, there have been many bright spots. A final clean bill of health, delightful visits to Newark, then the meetings of Regions IV in Greensboro, VI at Mansfield and II at Rochester. Also at Denver we saw the display gardens which give promise of a grand show. At home, the rains have come, the lawns again have turned green, the Oriental poppies have begun to show growth, though two months late, and the iris beds show strong healthy growth. The spurias are trying to recover from the contaminated water this spring. We already have had freezing weather and the garden is tucked in for the winter. Now we count the days before the first daffodils and tulips, and it will be nice to see the lilacs which were frosted by the late freeze and snow in May. The iris bloom must be good; could not have two poor years in succession.

HUBERT A. FISCHER

Flight Lines, regularly appearing in THE BULLETIN for years, arrived too late to be included in this issue. The material will appear in the April issue.
Editor.

DISTINGUISHED SERVICE MEDAL

DR. P. A. LOOMIS



The Board of Directors, at the Denver meeting in November, 1966, voted to Dr. P. A. Loomis of Colorado Springs, the Distinguished Service Medal. Many and avid have been Dr. Loomis' interests in irises and the American Iris Society, but perhaps two stand out: first, his work with the Mohrs, culminating in the Dykes Medal winner, *ELMOHR*; and second, his work with the pinks, a work which he shared with many breeders in America. Your editor still remembers with crystal clarity his amazement at seeing in 1954 magnificent seedlings still coming from the same arilbred planting that produced *ELMOHR*, some of which, blooming for the first time after long-delayed germination, well could have given the Dykes Medal winner a run for its money.

HYBRIDIZERS' MEDALS

GEORGIA HINKLE

For outstanding contributions to the development of tall bearded irises, Mrs. W. J. (Georgia) Hinkle has been awarded the Hybridizer's Medal by the American Iris Society. Among recent awards which her skill as a hybridizer has produced are four AMs and nineteen HMs. She is shown here with one of her newer products, *SOUTHERN COMFORT*. She helped organize the Southern Illinois Iris Society, is an Honorary Judge, and chairman of Judges Training for the southern area of Region 9.



BEE WARBURTON



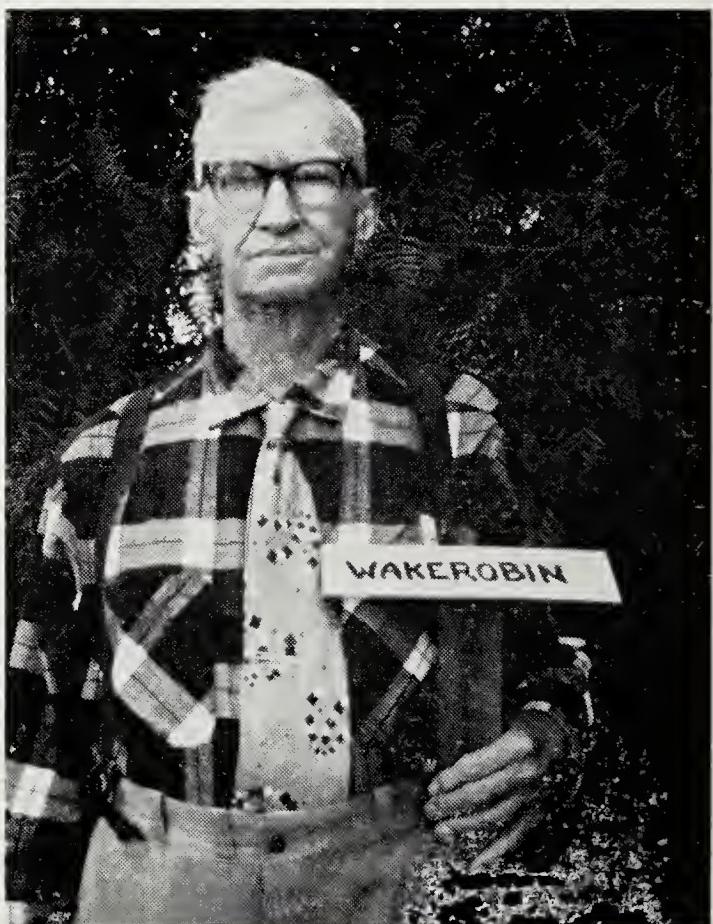
more eloquently than mere words on paper ever can.

Bee Warburton: medians. One never thinks of median irises without the name of Bee Warburton flashing into mind simultaneously. She has been president of the Median Society, and currently serves as the BULLETIN representative of that Society. Her "facile" typewriter has been tireless in the promotion of these irises, in many directions. And now, by virtue of 26 HMs two AMs and two Cook-Douglas awards in recent years, the Board of Directors, has voted to her the high honor of the Hybridizer's Medal.

So much could be written about Bee, about her unflagging enthusiasm, her drive and her energy, and her knowledge; but in the gardens of America, let such of her "children" as BRASSIE, BLUEBERRY MUFFINS and BLUE DENIM speak for her, and speak

WALKER FERGUSON

For his distinguished work in the improvement of the spuria iris, The American Iris Society has awarded to Walker Ferguson the Hybridizer's Medal. Mr. Ferguson, now past eighty years of age, has worked with irises since 1942, and with the spurias since 1950. Since then he has won the Eric Nies Award twice, and has won sixteen HMs. Six of these HMs came in 1966, and his DARK AND HANDSOME won seventeen votes for HC.



EIGHT NEW RVPS

REGION 1. Too late to get a picture and biography comes the news of the elevation of Kenneth M. Waite of Westfield, Mass., to the office of RVP of Region 1. We will try to give you these important items in the April BULLETIN.

REGION 2. W. H. Peck is an attorney who has been active in the iris world. Both he and his wife are avid landscapers and gardeners, and Bill's current interest in irises dates back to a gift of rhizomes which Polly gave to him. They have four children, two sons at Yale, and two daughters in secondary schools. Bill has been president of the Empire State Iris Society, editor of the newsletter of that society, president of the Northeast Median Iris Society, and is chairman of the 1970 convention committee.



REGION 5. Vivian M. Buchanan is a graduate of Agnes Scott College, and is a trained social worker, specializing in the field of adoptions. Her husband is a violist with the Atlanta Symphony, and is a teacher of music. In 1950 she won her first blue ribbon with OLA KALA, and in 1953, the Buchanans started clearing a hillside where their new home was to be built. The hillside was terraced for irises, and the irises moved before the Buchanans did. Mrs. Buchanan has been a member of AIS since the '50s, and has been a garden judge since 1956.



REGION 7: Franklin Tice has been an active member of the American Iris Society since 1960 and was appointed Garden Judge in 1965. He is a charter member of the Blue Grass Iris Society, and has served as treasurer and first vice-president. He describes himself as a backyard gardener, and grows tall bearded, Japanese and border irises; and he has been a contributing member of local and regional iris groups. He is a native of Lexington, Kentucky, where he operates a plumbing repair business.

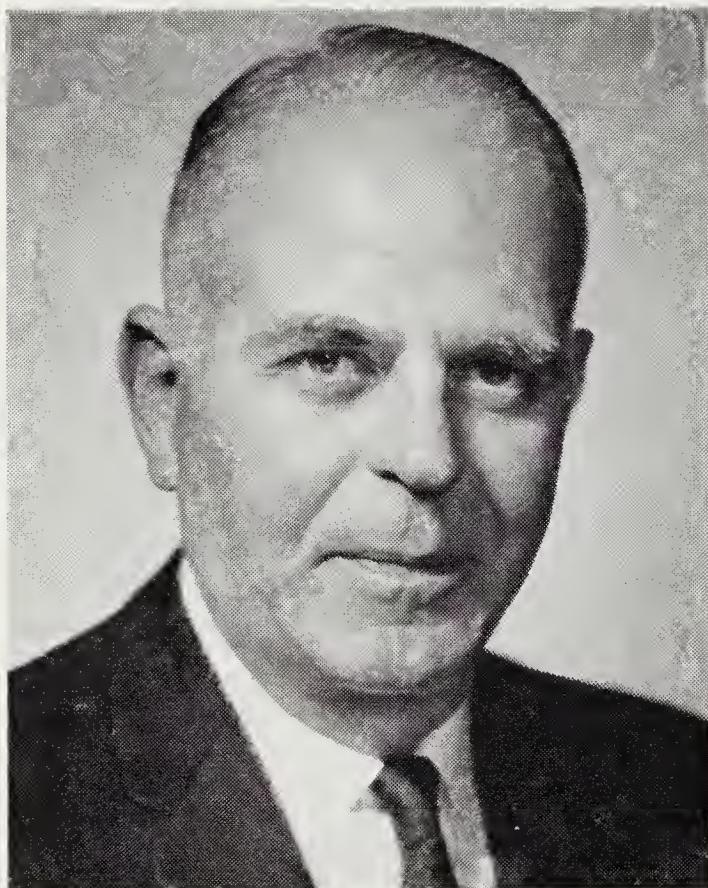


Photo by Fabian Bachrach



REGION 13: Herbert M. Parker (Herb) is a member of the Richland Iris Society, the Kennewick Iris Society, the Northwest Median Society and the British Iris Society. He is the recently appointed chairman of the AIS Scientific Committee. He has been a serious amateur iris grower for about eight years with an equal

period of casual growing before acquiring the "addiction."

He maintains about 350 modern tall bearded varieties and about 200 others, including almost all the classes that can be persuaded to accept the desert climate.

His wife, Margaret, assists the bees in spreading pollen and has a modest collection of seedlings. Both members brought a love for gardening from England; they enjoy landscape work and decorative use of irises as much as the technical and field aspects. Flower photography is another interest.

Professionally, Herb is a radiation physicist, his early career being in medical physics in England and in Seattle, Washington. Since 1942 he has been connected with radiation research and research administration in the atomic energy program.

The Parkers have recently moved to new quarters on the banks of the Columbia River, with enough grounds to permit a rapid expansion of their iris plantings in the next few years.



REGION 20. Charles P. (Chuck) Gordon takes over again as RVP, after a five year period, after having been RVP of Region 20 from 1959 through 1962.

"Chuck" has been growing irises since the old "flag" days and can remember when he had such beauties as GUDRUN, CHINA MAID, GLORIOLE, LOUVOIS, WABASH, THE BLACK DOUGLAS, etc.; he really thought that he had it made. When he bought CHERIE the first year it was introduced, he was sure that there never could be anything finer.

He speaks of his garden as a 2 x 4 piece of ground and just a backyard garden. In this, however, he grows an average of about 350 named irises. He has been adding 15 to 25 new

varieties every year, and has few older than 1958, the exceptions being some old favorites, oncos and arils.

"Chuck" started hybridizing in 1948, just for the fun of it; and he says that since that time it has just been a matter of seeing them and tossing them out most of the time. His garden is purely a hobby, and it was only in 1964 that he felt that he had anything worthy of introduction commercially, although he has registered several. His pride and joy is ABOVE ALL.

He does not take all of the credit, as his wife, Helen, is as avid a gardener as he. The garden contains other perennials such as lupin, delphinium, phlox, coral bells, hems and real lilies, etc. In addition, they have a beautiful rose bed, and are not without color in the garden from crocuses in the spring until chrysanthemums in the fall.

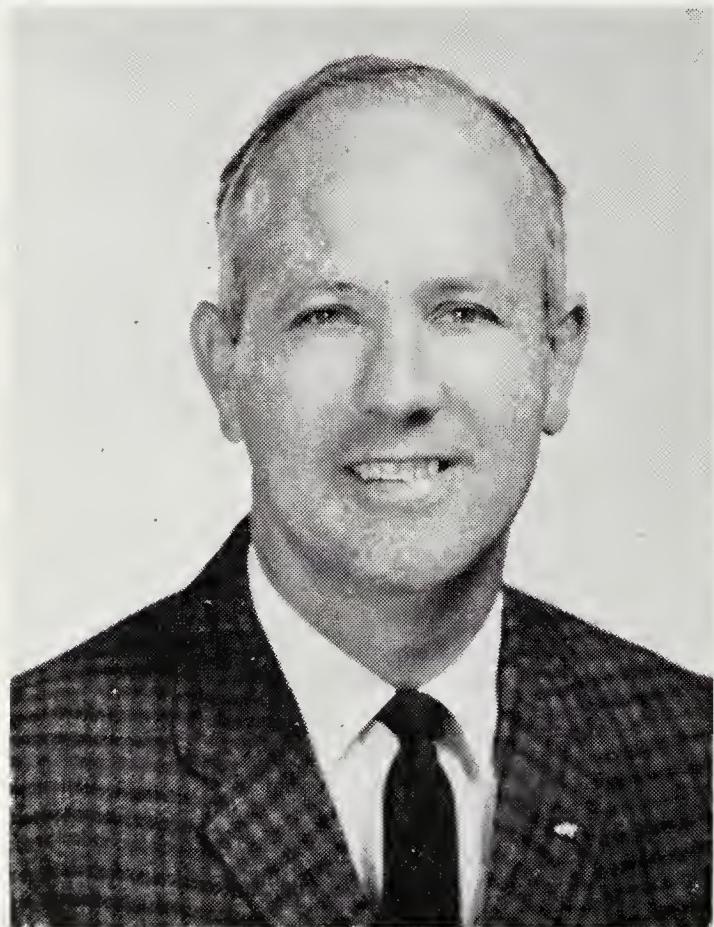
INTRODUCING

The finest in aril and arilbred irises from LEO CLARK. Proven hardy in the midwest. Carefully grown, top quality stock. Write for free descriptive list.

Sierra View Gardens

643 CRISTER AVENUE
CHICO, CALIF. 95926

REGION 23. Mrs. Bernard Lowenstein is a graduate of the University of California, with AB and MA degrees in bacteriology. She has loved irises since childhood, and can remember the clumps of ochroleuca irises in her mother's garden, as well as the species growing in the woodlands of California. Her husband is a government physician, and they have lived in a number of different places in the United States. In 1951, they moved to Albuquerque, built their own home, and started gardening seriously. She has been a member of AIS since 1956, and has attended a number of the annual meetings. She is past-president of the New Mexico Iris Society, and has twice been chairman of that club's annual iris show.



has held other offices in that organization. He presently is a member of the Board of Directors of the Birmingham Area Hemerocallis Society, and is chairman of the Hybrid Section, Iris Display and Test Garden of the Birmingham Botanical Garden.

REGION 24. Joe M. Langdon is a native Alabaman, and a graduate of Auburn University. He is married to the former Olive Bailey, and they have one son, Joe, age 7.

Mr. Langdon served with the navy during World War II. He operates a plumbing and heating business in Birmingham.

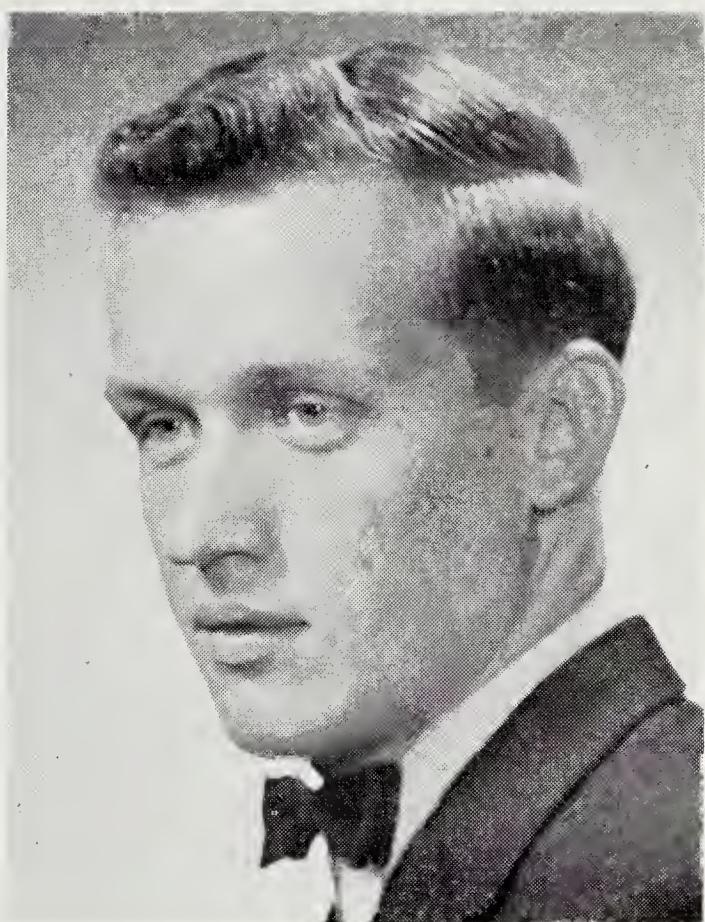
He is active in the Methodist church, and is past chairman of the Board of Stewards, and currently is chairman of the Commission on Stewardship and Finance. He is active in a number of civic affairs, and is a Mason and Shriner.

Iris and daylily growing are a family hobby, and the family endeavors to keep up-to-date with newer varieties and new ideas. Mr. Langdon has been a president of the Birmingham Area Iris Society, and

NEW ROBIN DIRECTOR

WILLIAM JON KRASTING

The Robin program has a new director, Bill Krasting. You will remember him as the cartoonist for the BULLETIN, a feature which he now is phasing out to become the new director of the Robin program. He brings to the new assignment youth, vigor and enthusiasm, and the promise of John Bartholomew of assistance until he has mastered this important program of the American Iris Society.



NEW PUBLIC RELATIONS CHAIRMAN



JOSEPH A. GATTY

Joseph A. Gatty, of Fair Lawn, New Jersey, began irising in 1948, and became a member of the American Iris Society in 1950 and a Garden Judge in 1955. He was RVP of Region 19 from 1960 to 1963, has been treasurer of the Median Iris Society, and was the chairman of the 1966 AIS convention. He has hybridized and introduced a number of irises. Professionally, he is the Assistant Export Manager of Erwin Mills, a division of Burlington Industries. He brings to his new position with AIS a whirlwind enthusiasm.

NEW PROGRAMS AND CHAIARMEN



MRS. ELIZABETH H. ROWE

YOUTH PROGRAM

After studying the possibilities of an AIS Youth program, Betty Rowe submitted the report to the Board of Directors. The report showed such careful study of the possibilities that the program was adopted, and Mrs. Rowe was appointed as the chairman.

ROY DAVIDSON

SPECIES CHAIRMAN

Roy Davidson, chairman of the newly formed Species committee, comes to his assignment with a rich interest and experience in this field. He is an amateur botanist and a student of native plants, and his garden reflects this special interest with species of penstemon and irises from the wild, of the Oriental genus hosta, and of alpine plants from the world over. Floral and landscape design is his profession, and he presently is employed as a flower designer.

AIS Judges for 1967

The following lists include the four categories of judges; garden judges, exhibition judges, senior judges and honorary judges.

By authority delegated by the Board of Directors, members nominated by the Regional Vice Presidents as garden judges or as exhibition judges have been accredited, respectively, by:

MRS. WALTER H. BUXTON, *Chairman*, Garden Judges Committee.

MR. WILLIAM T. BLEDSOE, *Chairman*, Exhibition Committee.

Exhibition judges are accredited to judge exhibitions only. Garden judges are also exhibition judges.

Garden and exhibition judges hold office for one year, with reappointment contingent upon the performance of all duties required of the office. Garden judges may not exceed ten per cent of the total membership of the Society.

Senior judges are (1) accredited garden judges automatically elevated to this class after fifteen years of service, and (2) present and past Directors. These judges have all of the voting privileges of garden judges, but are not required to visit gardens or to vote unless they wish to do so. They are expected to participate in the training of new judges.

Honorary judges are appointed by the Board of Directors. This office is an honor given to judges who have rendered outstanding service to the Society. Honorary judges have the voting privileges of garden judges, but exercise of the privilege is optional.

In the lists, garden judges are identified by a G, exhibition judges by an E, senior judges by an S, and honorary judges by an H.

REGION 1

Massachusetts

- G RVP, Mr. Kenneth M. Waite, Westfield
H Mr. John A. Bartholomew, Milton
G Mrs. John A. Bartholomew, Milton
S Mrs. Thelma Barton, Gardner
S Dr. G. Percy Brown, Barre
S Mr. Stedman Buttrick, Concord
S Mrs. Preston E. Corey, Reading
S Mrs. Irving W. Fraim, Waltham
E Mrs. John Johnson, Quincy
G Mrs. Stephen C. Kanela, Walpole
H Mr. Harold W. Knowlton, Auburndale
G Mr. George Melnik, Deerfield
E Mrs. Percy I. Merry, Needham
G Miss Eleanor Murdock, East Templeton
H Mrs. Thomas Nesmith, Lowell
G Mrs. K. A. Perkins, Saugus
G Mr. George H. Pride, Worcester
G Mrs. Shirley Spurr, Melrose

S Mr. Kenneth W. Stone, Ashby

G Mr. Donald I. Tufts, Grafton

G Mrs. Donald I. Tufts, Grafton

G Mr. Carlton J. Ulm, Taunton

G Mrs. Frank W. Warburton, Westboro

G Mr. Win Wheeler, Sherborn

Connecticut

- G Mrs. C. A. Bahret, Danbury
G Mr. Frederick W. Gadd, Wethersfield
G Mr. John E. Goett, Monroe
G Mr. Frederic A. Jacobs, Meriden
G Mr. Carl G. Schulz, Meriden
G Mr. Coulson H. Squires, Madison
S Mrs. Charles I. Stephenson, New Haven
G Mr. William Thomsen, Springdale
G Mrs. Troy Westmeyer, Stamford
G Mrs. Frances H. Winkler, Woodbridge

Maine

- E Mr. Bernard McLaughlin, South Paris

REGION 2

New York

- G RVP, Mr. William H. Peck, Oyster Bay
G Mr. Gaylord Baldwin, Groton
G Mrs. Henry W. Blenis, Ravena
G Mrs. Guy Bogard, Rochester
S Mr. Merton Brownell, Mt. Upton
G Mrs. Wells E. Burton, Greene
H Mr. Fred E. Cassebeer, West Nyack
G Dr. Irwin A. Conroe, Slingerlands
G Mr. Earl B. Daum, Buffalo
G Mrs. Harry L. Edwards, Massapequa Park
G Mr. Arthur Faulds, Amsterdam
H Mr. Paul F. Frese, White Plains
G Mrs. Stuart Hall, Brewerton
G Mr. Elston K. Herrald, Baldwinsville
G Mrs. Thomas R. Higgins, Muttontown

H Mr. Thomas E. Jacoby, Oakfield

G Mr. Harry B. Kuesel, Greenvale

G Mrs. H. A. Laidlaw, Amsterdam

G Mrs. William P. Liebegott, Bellmore, L. I.

G Dr. William G. McGarvey, Oswego

G Mr. Robert Milner, North Collins

G Mrs. John M. Price, New City

G Mrs. O. F. Quist, Spring Valley

H Dr. L. F. Randolph, Ithaca

G Mr. Joseph Ryan, Schenevus

G Mr. Robert H. Savage, North Syracuse

S Mr. James Stevens, Greenville

G Mr. Charles Stewart, Burnt Hills

G Mr. Herman Story, Freehold

S Mr. John Swantak, South Kortright

G Mrs. Carleton Irene Van de Water, New Paltz

- G Mr. George Paul Watts, Armonk
G Mr. E. Freeman Yendall, Kenmore

- G Mrs. Phyllis Zezelic, Massapequa Park
G Mr. Clinton Ziems, West Monroe

REGION 3

Pennsylvania

- G RVP, Mrs. Elizabeth H. Rowe, Pittsburgh
E Miss Iva May Anderson, Pittsburgh
S Mrs. William E. Chambers, Merion Station
G Mrs. E. A. Chariott, Moylan
G Mr. Norman R. Clouser, Reading
G Mrs. J. W. Dougherty, Pittsburgh
G Mrs. Robert J. M. Gantz, New Hope
G Mr. Russel S. Groff, New Holland
G Mrs. Eugene G. Hamill, Hollidaysburg
G Mr. William T. Hirsch, Havertown
E Mrs. William T. Hirsch, Havertown
E Mrs. John H. Hoffman, Kennett Square
G Mr. Maxwell W. Hunter, Hollidaysburg
S Mrs. Gustave E. Lundt, Norristown
S Mr. John C. Lyster, Clifton Heights

- G Prof. Larry P. Mains, Media
E Miss Sophia M. Moiles, Johnstown
G Mr. A. Edward Murray, Jr., Levittown
E Mr. Albert E. Murray, Levittown
G Mr. William Newhard, Quakertown
H Mrs. R. Moore Price, New Hope
G Mrs. Frank Proskey, Pittsburgh
E Mr. E. Earl Rider, Easton
G Mr. Cloyd F. Sensenbach, White Haven
G Mrs. Theodore R. Shiner, Nescopeck
G Mr. Paul R. Smith, Sanatoga
G Mrs. Guy E. Stevens, Middlebury Center
G Miss Dorothy Urick, Meadville
E Mr. Jack Weber, Yeadon
H Dr. John C. Wister, Swarthmore
Delaware
G Mrs. Frank W. Hankins, Smyrna
E Mrs. Ernest L. Smith, Wilmington

REGION 4

Virginia

- G RVP, Mrs. J. H. Frantz, Salem
G Mr. William T. Allen, Newport News
G Mr. Weldon W. Ballard, Chesapeake
S Mrs. F. Allen Brown, Roanoke
G Mrs. Guy Kirby, Norfolk
G Dr. Anne L. Lee, Norfolk
G Mr. Joseph E. Lynn, Jr., Buena Vista
E Mrs. John McCoy, Roanoke
S Mr. Louis McDonald, Lynchburg
G Mrs. Robert L. Munn, Virginia Beach
E Mrs. Nelson O. Price, Blacksburg
G Mrs. A. W. Rice, Roanoke
S Mrs. Charles F. Roberts, Norfolk
G Mr. Fred G. Stephenson, Roanoke
G Mrs. F. G. Ward, Virginia Beach
G Dr. Lloyd G. Zurbrigg, Radford

District of Columbia

- H Mr. Charles E. F. Gersdorf, Washington, D. C.

North Carolina

- G Rev. Raymond L. Alexander, Washington

- E Mr. B. J. Brown, Charlotte
E Mrs. B. J. Brown, Charlotte
G Mrs. Craven B. Helms, Monroe
S Mrs. Hubert Johnston, Jamestown
E Mrs. P. Sentelle Jones, Rocky Mount
G Mr. Ralph E. Lewis, Durham
S Mr. C. C. O'Brien, Greensboro
G Mrs. C. C. O'Brien, Greensboro
G Mr. D. W. Parham, High Point
G Mr. Frank Sherrill, Davidson

Maryland

- G Mr. Frank Bennett, Laytonsville
G Mrs. Elton H. Bounds, Mardella Springs
G Mrs. E. J. Hillyer, Rock Hall
G Mr. Ivan Richmond, Silver Spring
G Mr. Donnell M. Smith, Baltimore

West Virginia

- G Mr. Earl T. Browder, St. Albans
G Mrs. J. B. Crozier, Iaeger
G Mr. W. D. Kelley, Lewisburg
G Mrs. J. R. McCracken, Walker
E Mrs. C. L. Watson, Parkersburg

REGION 5

Georgia

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G Mrs. Maurice C. Abercrombie, Palmetto

- G Mr. Milton W. Blanton, Atlanta
E Mrs. L. L. Butts, Thomaston
E Mrs. Roy M. Carter, Gainesville
G Mr. James H. Duren, Atlanta

- E Miss Helen Estes, Gainesville
- G Mrs. Drew Ferguson, West Point
- G Mr. Johnson B. Hale, LaGrange
- E Mrs. Willie E. Rice Hurst, Marshallville
- G Mrs. E. Clifford Lowry, Atlanta
- E Mrs. E. Fay Pearce, Atlanta
- G Mr. M. Boydston Satterfield, Atlanta
- G Mrs. T. E. Tolleson, Atlanta
- G Mr. Harry Turner, Atlanta
- E Mrs. J. W. Weaver, Rome

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- E Mr. Paul Brink, Milan
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- G Mr. Lee Eberhardt, Springfield
- E Mrs. Y. R. Frederick, Urbana
- G Mr. Harry M. Hanna, Burbank
- G Mr. L. P. Irvin, Oxford
- E Mrs. Joseph Kerekes, Bedford
- G Mr. James E. McClintock, North Olmsted
- G Mrs. James E. McClintock, North Olmsted
- G Mr. Steve Moldovan, Avon
- S Mrs. Carl W. Naas, Celina
- H Mr. Harry R. O'Brien, Worthington
- G Mr. Z. Ransom Prentiss, Akron
- G Miss Pauline Reindl, Crestline
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- S Mrs. Herbert S. Shinkle, Dayton
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- G Mrs. Harold Slessman, Willard
- G Mr. Fred Taylor, Masury
- G Mrs. Frederick Thaler, Mansfield
- E Mrs. E. D. Warner, Brookville
- H Mr. Donald G. Waters, Elmore
- G Mr. Vincent C. Wiley, Columbus
- G Mrs. Anthony Willott, Cleveland

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- G Mrs. James Crist, Franklin
- G Mrs. Paul Dunbar, Indianapolis
- E Mrs. Robert Edwards, Indianapolis
- G Mr. Bernard E. Hobbs, Noblesville
- G Mrs. Bernard E. Hobbs, Noblesville
- E Mrs. Clyde H. Husselman, Waterloo

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- G Mrs. C. C. Chapman, Williston
- S Dr. Harvey Hobson, Clemson
- G Mrs. J. C. Lybrand, Wagener
- G Mrs. B. F. Martin, Columbia
- E Mrs. Gilbert H. Rowe, Columbia
- G Mrs. Walter S. Suber, Whitmire
- G Mrs. Ernest R. Thayer, Spartanburg

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- E Mrs. Glenn Kildow, Alexandria
- S Mr. Forrest V. McCord, Muncie
- G Mrs. Lee Noirot, Waterloo
- G Mrs. C. Daniel Overholser, New Albany
- H Mr. W. A. Payne, Terre Haute
- G Mrs. Noel E. Proctor, Fairmount
- G Mr. Earl R. Roberts, Indianapolis
- E Mr. Raymond G. Smith, Bloomington
- G Mr. Clarence A. Swearengen, Terre Haute
- G Mr. Raymond Thomas, Indianapolis
- G Mr. Harold W. Van Treese, Indianapolis
- S Mr. Walter Welch, Middlebury
- E Mr. Robert Welshans, Indianapolis
- S Miss Mary Williamson, Bluffton
- G Mrs. Jeff Zuercher, Portland

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- S Mr. Jay C. Ackerman, Lansing
- G Mrs. Harry L. Armiger, Southfield
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- G Mrs. Carl R. Bacon, Kalamazoo
- G Mrs. Albert Blaine, Dearborn
- G Mr. John L. Briggs, Kalamazoo
- S Mr. J. Nelson Brown, Bloomfield Hills
- E Mrs. Edwin R. Crosby, Flint
- G Mr. Robert Damoth, Southfield
- E Mr. Earl A. Fairman, Flint
- G Mr. Arthur H. Hazzard, Kalamazoo
- G Mrs. Lila Howland, Morrice
- G Mrs. Clarence G. Maynard, Royal Oak
- H Mr. Charles E. Morgan, Flint
- H Mr. George P. Morgan, Saginaw
- E Mrs. George P. Morgan, Saginaw
- G Miss Anna J. Noyes, Detroit
- G Mrs. Walter Piggott, Rapid City
- G Dr. David L. Reath, Vulcan
- G Mrs. Chester Robarts, Whittemore
- G Mrs. Edward Robinson, Lansing
- E Mr. Ernest L. Shantz, Fairview
- G Dr. H. E. Viergutz, Farmington
- G Mr. Frank A. Williams, Kalamazoo

REGION 7

Kentucky

- G RVP, Mr. Franklin Tice, Lexington
G Mrs. James W. Alexander, Lexington
G Mr. Franklin P. Brewer, Lexington
E Mrs. J. Robert Burns, Louisville
S Mr. Carl Carpenter, Owensboro
G Mrs. Anna Dodson, Louisville
E Mrs. Reed Elliott, Lexington
G Dr. Hubert C. Mohr, Lexington
G Dr. Joseph B. Parker, Jr., Lexington
E Mrs. Goebel Porter, Lexington
G Mr. Henry Rabe, S. Fort Mitchell
G Mrs. V. E. Teeter, Louisville
G Mrs. A. J. Vogt, Louisville
E Mrs. Ann H. Willinbreck, Louisville

Tennessee

- G Mrs. Nathan Bauman, Memphis
S Mr. W. T. Bledsoe, Fayetteville
G Mrs. W. T. Bledsoe, Fayetteville
E Mrs. Stanley Boren, Lewisburg
G Mr. Joe Brinkerhoff, Memphis
H Mr. Sam Y. Caldwell, Nashville
S Mr. Robert S. Carney, Memphis
G Mrs. E. F. Crenshaw, Memphis
G Chaplain C. S. Cunningham, Murfreesboro
G Mrs. Ray M. Dalrymple, Sr., Memphis
H Mr. Geddes Douglas, Brentwood
G Mr. Ben L. Fonville, Memphis
H Mrs. Edwin R. Fox, Memphis
S Mr. A. E. Galyon, Knoxville
S Dr. Frank Galyon, Knoxville
E Mrs. W. E. Green, Lewisburg

- G Mr. C. H. Gunn, Memphis
G Mr. P. M. Harding, Memphis
G Mrs. E. Turley Harrel, Memphis
E Mrs. Vivian G. Hill, Knoxville
E Mrs. Noah Johnson, Memphis
G Mrs. J. W. Judd, Chattanooga
G Mrs. M. A. Kelly, Memphis
E Mrs. C. R. Krag, Memphis
G Mrs. O. W. Lyle, Chattanooga
G Mrs. Luther Martin, Memphis
G Mrs. Daniel Meeks, Halls
G Mrs. Raymond Miller, Memphis
G Mrs. Guy Moran, Knoxville
G Mrs. William F. Murrah, Germantown
G Mrs. Fred O. Mynatt, Halls
G Mr. H. W. Neubert, Knoxville
E Mrs. John Palmer, Memphis
G Mrs. Hyman Pannell, Memphis
G Mr. John Payne, Memphis
E Mrs. John Payne, Memphis
G Mrs. Adelaide Peterson, Brentwood
G Mrs. Clint A. Pickens, Lewisburg
G Mr. John E. Pierce, Memphis
G Mr. E. B. Pittard, Memphis
G Mrs. Claude L. Ravan, Jasper
H Mrs. Leo E. Reynolds, Memphis
G Mrs. R. G. Ross, Jr., Memphis
G Mr. Jake H. Scharff, Memphis
G Mrs. Shirley Sides, Memphis
G Mrs. J. B. Stovall, Memphis
E Mrs. Edward Toulan, Memphis
E Mrs. William Van Winton, Memphis
H Mr. Jesse E. Wills, Nashville
E Mrs. C. A. Wyatt, Memphis

REGION 8

Minnesota

- G RVP, Mr. G. F. Hanson, Minneapolis
E Mrs. O. A. Bakke, Minneapolis
E Rev. Paul E. Folkers, Anoka
S Mr. Granville B. Gable, Minneapolis
G Mr. Urban J. Ipsen, Minneapolis
E Mrs. G. F. Lankow, Minneapolis
E Mrs. D. C. Messer, Excelsior
G Rev. J. William Rossiter, Fairmont
E Mrs. M. C. Senne, Fairmont
G Mr. Wilbert G. Sindt, North St. Paul
G Mrs. Alice Stenoien, Minneapolis
G Mrs. Clifford Stover, Minneapolis
E Mr. Harold Thomforde, Crookston
G Mrs. Tom D. Wright, Bloomington

Wisconsin

- G Mrs. Peter Baukus, West Allis
S Mr. Arthur G. Blodgett, Waukesha
G Mrs. Arthur G. Blodgett, Waukesha
G Mrs. H. W. Goodrick, Brookfield
E Mrs. Vera Hoefs, Greendale
G Mrs. Edward G. Miller, Milwaukee
G Mrs. George Ney, Milwaukee
G Mr. Clarence Protzmann, Milwaukee
G Mr. Robert M. Reinhardt, New Berlin
S Mrs. Robert M. Reinhardt, New Berlin
E Mr. Oscar W. Schroeder, Brookfield
E Mrs. John E. Troka, Milwaukee
G Mrs. Earl J. Yunker, Taycheedah
G Miss Nadine M. Yunker, Taycheedah

REGION 9

Illinois

G RVP, Mr. Lerton Hooker, Lombard
G Mr. Clarence Blocher, Wheaton
S Mr. Fred Bond, Albion
S Dr. C. E. Branch, Piper City
G Mr. Harley Briscoe, White Hall
G Mr. John C. Brown, Collinsville
G Mr. Thomas Buckley, Chicago
S Mr. Walter Button, Midlothian
S Mrs. Fred H. Clifton, Highland Park
G Mrs. Clyde Cox, Eldorado
H Mrs. William G. Dumont, Evanston
H Mr. Orville W. Fay, Northbrook
H Mr. Hubert A. Fischer, Hinsdale
G Mr. Ferris Gaskill, Barrington
H Mr. Richard Goodman, Riverside
G Mrs. Wilma Greenlee, Horace
G Mrs. Marge Hagberg, Westmont
H Mr. David F. Hall, Wilmette
S Mrs. Mildred Harrell, Aurora
H Mrs. Georgia Hinkle, Marion
G Mr. G. E. Hubbard, DeKalb
G Mr. Arthur Jensen, Batavia

G Mr. Leonard Juglc, Elmhurst
G Mrs. Leda Knight, Omaha
G Mr. Frank Lang, Melrose Park
G Mr. George Livingston, Earlville
G Mrs. Dorothy McKemie, Benton
G Mr. James E. Marsh, Chicago
G Mr. James Mason, Chicago
G Mrs. Mildred Midjass, Carbondale
G Mr. L. F. Murphy, Mt. Vernon
G Mrs. Jesse L. Pickard, Benton
S Bro. Charles Reckamp, Techny
G Miss Marilyn J. Redenbo, Tamalco
S Mr. Nathan Rudolph, Aurora
G Mr. Richard Sanders, Wheaton
G Mrs. E. P. Sawyer, Gibson City
G Mrs. Marilyn Sheaff, Ottawa
G Mr. Walter Sir, Oak Park
G Mr. Robert C. Smith, Robinson
G Mr. John Thompson, Springfield
G Mr. James S. Tucker, Centralia
G Mr. D. Steve Varner, Monticello
S Mr. Edward E. Varnum, Villa Park

REGION 10

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G RVP, Mrs. Ruth Noel, Shreveport
G Miss Aline Arceneaux, Lafayette
G Mr. Charles Arny, Lafayette
S Miss Marie Caillet, Lafayette
H Mrs. Walter Colquitt, Forbing
G Mrs. W. E. Conger, Arcadia
G Mr. Claude W. Davis, Baton Rouge
E Mrs. Roy Davis, Shreveport
E Mrs. Robert Ehrhardt, Shreveport

E Mrs. Erwin Jordan, Alexandria
H Mrs. W. B. MacMillan, Abbeville
G Mr. Joseph K. Mertzweiller, Baton Rouge
E Mr. Roderick H. Outland, Natchitoches
G Mr. Jules Patin, Lafayette
G Mrs. L. L. Robinson, Shreveport
G Mr. Nolan J. Sahuc, Lafayette
G Mrs. A. P. Walther, Shreveport

REGION 11

Idaho

G RVP, Mrs. Ed Conrad, Buhl
E Mrs. Floyd Bandy, Twin Falls
E Mrs. John D. Flatt, Twin Falls
G Mrs. H. Hargis, Jerome
G Mrs. E. J. Henke, Boise
E Mr. J. C. Hickenlooper, Preston
E Mrs. Don R. Holtz, Kellogg
G Mr. Robert L. Jensen, Montpelier
S Mrs. Alfred Krammer, Castleford
E Mr. Neil Mogensen, Fruitland
S Mrs. Ralph S. Nelson, Coeur d'Alene
E Mrs. Norman E. Purviance, Lewiston

S Mrs. Estelle A. Ricketts, Jerome
G Mrs. Carl M. Smith, Lewiston
S Mrs. S. W. Smith, Twin Falls
S Mrs. Glen Suitor, Eagle
S Mrs. C. W. Vallette, Declo

Montana

S Dr. Homer N. Metcalf, Bozeman
E Mrs. S. F. Pimperton, Fort Benton
G Mrs. W. R. Walters, Great Falls
E Mrs. E. M. Zimmerman, Billings

Wyoming

G Mrs. C. Arvid Nelson, Laramie
S Mrs. Lowell A. Storm, Chugwater

REGION 12

Utah

G RVP, Dr. Odell Julander, Provo
E Mrs. Evelyn Barkdull, Logan
E Mrs. Townley Brian, Ogden
E Mrs. David E. Burton, Salt Lake City
S Mrs. Luzon Crosby, Orem
G Mrs. T. O. Daley, Ogden
E Mrs. R. Ervin Day, Fillmore
G Mrs. Clyde M. Deeker, Ogden
G Mrs. Louis Deru, Ogden
G Mr. John C. English, Salt Lake City
E Mrs. John C. English, Salt Lake City
E Mr. Walter Foulger, Ameriean Fork
G Mr. J. R. Hamblen, Roy
S Mrs. J. R. Hamblen, Roy
G Mrs. H. C. Hansen, Logan
H Mr. Fisher Harris, Salt Lake City
E Mrs. Vernon R. Hutehins, Salt Lake City
G Mrs. Ray E. Jensen, Logan

G Mrs. Merrill S. Johnson, Salt Lake City
S Mr. Carl A. Larson, Salt Lake City
E Mrs. Joan C. Lee, Roy
G Mr. W. E. McClure, Ogden
G Mr. George R. Mayberry, Provo
E Mrs. Ruth Milligan, Ogden
S Mr. Tell Muhlestein, Provo
E Mrs. Thomas Osguthorpe, Salt Lake City
G Mr. Les Peterson, Salt Lake City
G Mr. C. Meredith Reynolds, Bountiful
G Mrs. C. Meredith Reynolds, Bountiful
G Mr. Raymond C. Solomon, Salt Lake City
G Mr. Herbert Spence, Ogden
G Mrs. Merlin Tams, Wellsville
G Mrs. Herman Theurer, Wellsville
H Mrs. Herman Thorup, Salt Lake City
G Mr. Bion Tolman, Salt Lake City
E Mr. Marvin A. Wallaee, Murray

REGION 13

Washington

G RVP, Herbert M. Parker, Richland
G Mr. Foster H. Allen, Washougal
E Mrs. Marie H. Amend, Quincy
G Mrs. G. D. Bletcher, Spokane
G Mr. Donald J. Boen, Walla Walla
E Mrs. Earl Bowyer, Vancouver
G Mrs. C. T. Bromley, Richland
G Mrs. Rex P. Brown, Kirkland
G Mrs. Tom M. Brown, Walla Walla
G Mr. Charles F. Carper, Seattle
G Mr. Norris W. Carter, Spokane
G Mrs. Herman Cusic, Colville
S Mr. Merle Daling, Waterville
E Mr. B. LeRoy Davidson, Seattle
G Mrs. John C. Flagler, Seattle
E Mrs. John W. Fox, Kennewick
G Mrs. Alexia Gerberg, Naches
G Mr. Joseph H. Hoage, Riehland
G Mrs. T. C. Hobart, Greenacres
G Dr. Frederiek R. Judy, Spokane
E Mrs. W. H. Keen, Walla Walla
G Mr. W. G. Kellie, Paseo
E Mrs. J. H. Kohl, Kennewick
G Mrs. Maxine G. Maynard, Puyallup
H Mr. Alexander Maxwell, Yakima
G Mrs. W. L. Mize, Bellingham
G Mr. Austin Morgan, College Plaee
G Mrs. Walter Noyd, Wenatchee

E Mrs. Grace Pederson, Seattle
E Mrs. Henry Peterson, Tacoma
S Mr. Gordon Plough, Wenatehee
G Dr. Richard S. Rosenfels, Riehland
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H Mrs. Hazel Sehmelzer, Walla Walla
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H Mr. R. M. Cooley, Silverton
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G Mr. Larry Ernest, Silverton
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E Mrs. Edith Poe, Medford
G Mrs. Marjorie Roark, Grants Pass
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REGION 14

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G Mrs. Ermah Ballard, Redding
E Mr. Stewart Barber, Sebastopol
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G Mr. Glen Corlew, Walnut Creek
E Mr. Ralph B. Coleman, San Jose
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G Mrs. Thomas Dabagh, Berkeley
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G Mr. Tom Foster, Walnut Creek
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G Mrs. Larry Gaulter, Castro Valley
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REGION 17

Texas

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 E Mrs. Perry Hager, Bonne Terre
 G Miss Annabel Hennrich, Ironton
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 G Mr. E. P. Kieferle, St. Ann
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 G Mr. M. J. McHugh, Kansas City
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 G Mr. O. D. Niswonger, Cape Girardeau
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 G Mrs. Marvin G. Olson, Webster Grove
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 G Mrs. Victor Quesnel, Farmington
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 G Mr. Elvan E. Roderick, Des Loge
 S Dr. Walter H. Ryle, Kirksville
 G Mr. Harold Schaan, St. Louis
 H Mr. Carl O. Schirmer, St. Joseph
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- S Mr. Herman J. Selle, Kansas City
 G Mr. S. G. Street, Independence
 G Mrs. S. G. Street, Independence
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Kansas

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 G Mr. George Bender, McPherson
 G Mrs. Bert Brickell, Emporia
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 G Mrs. Roy Brizendine, Topeka
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 G Mrs. Charles Heisz, Selden
 G Mrs. Charles Jendel, Wichita
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 S Dr. John R. Durrance, Denver
 G Mr. John Hartman, Arvada
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 G Mr. Joseph O. Riley, Denver
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 G Mrs. H. V. Glitsch, Woodward
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 G Mrs. Robert Henry, Ardmore

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E Mr. W. E. Jones, Oklahoma City
G Mrs. Charles E. Kenney, Tulsa
G Mrs. Ed C. Kurtz, Walters
E Mrs. L. M. Limpus, Spencer
G Mrs. Helen McCaughey, Oklahoma City
G Mrs. J. B. McConnell, Tulsa
G Mr. Perry Parrish, Oklahoma City
E Mrs. H. G. Plato, Oklahoma City
G Mrs. Frank O. Pohlemann, Anadarko
S Mrs. Russell Pryer, Oklahoma City
E Mrs. Robert E. Ritter, Oklahoma City
G Dr. M. L. Saddoris, Cleveland
G Mrs. M. L. Saddoris, Cleveland
E Mr. Ted Schwachhofer, Muskogee
G Mr. Kenneth J. Shaver, Bethany
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E Mrs. Zip Smith, Oklahoma City
G Mrs. Cyrus Stanley, Oklahoma City

G Mrs. James G. True, Lawton

E Mrs. J. J. Truscott, Shawnee

E Mrs. Rex White, Lawton

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G Mr. A. L. Woodall, Woodward
Arkansas

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G Mrs. Zeb Dennis, Jr., Hot Springs Nat'l Park

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G Mrs. Irby Downey, Albuquerque
G Mrs. Earl Gould, Albuquerque
E Mrs. Dennis Hoilman, Albuquerque

G Mr. Frank Kalich, Albuquerque

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REGION 24

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G Mrs. Ruth T. Fletcher, Gadsden

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DENVER IN '67

JACK RILEY

Certainly those of us in Denver who had been involved with the annual meeting of 1963 did not expect that it again would be scheduled with us so soon. Two very important factors made it possible for Region 20 to embark upon this venture on such short notice and with some hope of ultimate success: first, all of our '63 committee chairmen still were with us and again were willing and able to perform in the same capacities; and, second, Denver Botanic Gardens were willing to furnish a site for the convention garden, which for all practical purposes, is virgin soil. A few hundred meetings and the plans for '67 were under way.

Region 20 will follow the plan used previously. One major convention garden will be located in Denver Botanic Gardens. All single rhizomes will be planted at this point. Duplicate rhizomes have been distributed among three other locations. Supplemental gardens will be located on the campus of Colorado State University at Fort Collins; at the home of Long Gardens in Boulder; and in the gardens of Dr. Ralph Adams, Dr. James Brown and Dr. Philip Loomis in Colorado Springs.

The beds at Botanic Gardens will accomodate usually 24 irises, in two rows of 12 each, with each row and each iris being a full three feet apart. Walkways between beds will be sod-covered and will be six to eight feet wide, permitting free passage for all visitors. We have received a good number of guests in the standard dwarf, intermediate and border types, and these irises have been planted in separate beds. Those of you who attended the '63 meeting will remember that we had a large number of these types which continued their bloom into the tall bearded season, and were seen to good advantage at the annual meeting.

The AIS membership was circularized, publication of the July BULLETIN was held up for an invitation to growers to send rhizomes to Denver for '67, and the whole show was on the road. At this point I can tell you that there are 1016 irises planted in the convention garden at Denver Botanic Gardens. Mr. Carl Jorgensen, who is supervising the garden on the CSU campus, reports a total of 400 varieties planted at that point. Mr. Everett Long has some 375 varieties planted in Boulder, and the three doctors in Colorado Springs have approximately 150 guests in each of their respective gardens. The major convention garden shows a total of 143 growers and hybridizers from 27 states have furnished guest rhizomes for the '67 garden, and the response by states is as follows:

California	22	Utah	5
Colorado	19	New York	4
Missouri	13	Tennessee	4
Illinois	10	Virginia	4
Washington	9	Alabama	4
Oklahoma	6	Kentucky	3
Idaho	6	Massachusetts	3
Kansas	5	Michigan	3
Nebraska	5	Oregon	3
Wisconsin	5	Minnesota	2

New Jersey	2	Pennsylvania	1
Ohio	2	Texas	1
Iowa	1	West Virginia	1
New Hampshire	1		

Present plans for the '67 meeting follow on these general lines: Registration will be on Wednesday morning, with a trip to Denver Botanic Gardens scheduled Wednesday afternoon, May 31. Arrangements will be made for early arrivals to pick up their registrations on Tuesday afternoon and evening. Thursday morning will find us boarding buses for the 65-mile trip along the foothills to Fort Collins. The morning will be spent between the guest garden on the campus and the experimental gardens nearby. One item of possible interest is the fact that in the experimental gardens you may see as many as 200 seedlings blooming from the same cross. Luncheon will be served in the new Student Union building on the campus. After lunch we will travel to the Long Gardens at Boulder. The afternoon will be spent at this point. In addition to the convention guests mentioned above, Mr. Long has a large number of seedlings growing that will equal in interest his convention plantings.

Friday's activities will include the trip to Colorado Springs, with lunch at that point, providing our SEASON'S MATCH ONCE AGAIN. At times there is as much as two weeks difference in the date of peak bloom. If there is too large a discrepancy in blooming dates, the day will be spent in smaller gardens in the Denver area. Saturday morning will find us again at Denver Botanic Gardens for another look at the planting there. I personally am wondering if we are planning enough time at Botanic Gardens with a total planting of just over 1000 irises. There will be a flower show on Saturday afternoon, and the meeting will close with the banquet on Saturday night.

As indicated in the October BULLETIN, the dates of the convention are May 31 through June 3, 1967. Mention should be made again that the registration fee will be \$37.00 if received before May 1, 1967. No cancellations will be considered after May 25, 1967. The registration fee after May 1 will be \$42.00. Convention headquarters will again be the Cosmopolitan Hotel. We hope that you can plan to spend some time in Colorado in '67. The big feature, of course, will be the annual meeting, but allow yourselves a little time before or after the meeting and take the time to see something of the deservedly famous Colorado Rockies. We don't make predictions weather-wise in Colorado, but if we have just half as much good fortune with the weather in '67 as we had in '63, we'll have a good iris show.

ATTENTION AFFILIATES

All affiliates are entitled to a free showing of AIS slides once a year. Be sure to give Mr. Schreiner thirty days notice, and order the slides in the name of the affiliated club, giving the name of the president of the club.

All affiliates also are entitled to a silver medal and a bronze medal free of charge for their shows. Be sure to order these at the time other show supplies are ordered.

If there is a change in the name of the president of the club, be sure to notify Mr. Varner, Mr. Benson, and the editor of the BULLETIN at once, so that the proper name and address can appear in the BULLETIN, and that the BULLETIN can be mailed to the proper address.

Lay Down the Law for Your Iris Show!

WILLIAM T. BLEDSOE

Chairman Exhibitions Committee



AT THE LANSING SHOW

Mrs. Ed Robinson, her AMETHYST FLAME, and S. B. Sterling, runnerup.

THUNDERBIRD with a Model T engine!

Before the Schedule Committee even starts its assignment, clear-cut decisions need to be made by the Show Committee on those questions likely to cause trouble. These include, but are not limited to, areas discussed later in this article. Obviously, problems for one show will not necessarily be the same for all others.

BEST OF SHOW (INTRODUCED VARIETIES)

The schedule should specify the classes from which this choice will be made. The collection classes or the arrangement classes should not be eligible for this award. But in your show, are the specimen entries in the Junior Division to be considered? They may be. What about the Arils, the Medians, or other kinds of irises for which classes are provided in the schedule? They must be included! The only specimen entry which cannot have a chance at this award is the seedling entry, which, of course, has its own Best-of-Show award.

SILVER MEDAL OR CERTIFICATE

Except for the Junior Division entries which are discussed separately below, all blue ribbons won in the Horticultural Division must be counted toward this award, regardless of whether the exhibitor belongs to AIS. Many show chairmen believe erroneously that an exhibitor must be an AIS member to win the AIS medals or certificates in a show. Show Rules 8 and 18 set this

Within the limits prescribed by AIS Show Rules, the schedule is the Law of your iris show. Yet so many schedules are silent on so many important points that bitter arguments and misunderstandings frequently arise. The Show Rules, Chapter 5 and The Show Schedule section of Chapter 6, 1965 *Handbook for Judges and Exhibitions*, should be studied carefully before any attempt is made to write a schedule. Even then there are potential problem areas which are not specifically covered in the Handbook. Unfortunately many committees write their current schedules simply by copying the one used last year—which, in turn, was a duplicate of the one used the year before, and the year before that—often all the way back to the first show held in that town! Therefore, many modern shows are trying to operate with antiquated schedules—which is about like driving a 1967

out clearly. If, however, a silver cup or some similar award is offered by the sponsoring organization to the local member who wins the greatest number of blue ribbons, this does not conflict with AIS rules. If the show has a Junior Division, blue ribbons won there may count toward this award, but in this case the Chairman of Judges must be careful to instruct the Judges that, in the interest of fairness, all classes of entries, including those of the Junior Division, will be judged with the same degree of leniency.

JUNIOR DIVISION

All shows are encouraged to provide in their schedules for Junior Divisions, if practical. One precaution is necessary here: The Junior exhibitor can enter either as a Junior or as an Adult, but NOT as both! It should be emphasized that Rule 26 of the Show Rules provides for AIS awards to worthy Juniors, if the schedule limits them to competition within their own group!

CLASSES BY CULTIVARS (INTRODUCED VARIETIES)

An increasing number of shows each year are setting up their specimen classes according to variety. This may not be entirely practical for a small show, but even here the Classification Committee should be empowered to do so, if entries warrant. I direct your attention particularly to HORTICULTURAL DIVISION, Paragraphs 1-3, Page 32 of the 1965 *Handbook*. Classes set up by varieties make judging of the show easier and more effective. It virtually eliminates the problem of the old iris having to compete with the newer ones. And it lightens considerably the duties of some committees on the day of the show. I encourage its use to the highest possible degree!

DIVISION FOR UNINTRODUCED IRISES

While this is popularly called the "Seedling Division," this is somewhat of a misnomer. Technically, an iris is no longer a seedling after it is officially registered and named. However, in order to make exhibition awards and garden awards to "seedlings" at exactly equivalent levels, the Exhibition Certificate can be awarded to any unregistered iris in a show, just as an HC or a RTG award can be awarded to any unregistered (even though named) iris in the garden. Ribbons should not be awarded in the Unintroduced (or Seedling) Division.

Be sure to note that Rule 4 of the Show Rules has been changed. The basic reason for the change was to prevent an exhibitor winning for himself an award in this Division for an entry of somebody else's unregistered iris. (See Minutes of AIS Board Meeting, Denver, November 4-6, 1966).

In conclusion, I urge that each Show Committee consciously evaluate the requirements of your show, then make certain that your schedule does indeed lay down clear and workable "laws" for governing in all problem areas, so that there can be no misunderstanding or misinterpretation! If you have specific questions with which you think I can help, do not hesitate to write me.

25TH ANNIVERSARY PUBLICATION of the SOCIETY FOR LOUISIANA IRISES

The Society for Louisiana Irises' 25th Anniversary Publication is available from the Society at \$2.00 per copy. Illustrated with black and white and color photographs, it may be ordered from: The Society for Louisiana Irises, Box 175, U. S. L., Lafayette, La. 70501

MOUNT CLARE IRIS GARDENS

3036 N. Narragansett Ave.

Chicago, Illinois 60634

Since 1941 Home of the Aril Iris of the Great Lakes Region

1966 INTRODUCTIONS

BIG BLACK BUMBLEBEE. Arilbred, 24", E-M, Sdlg. 65-4. S. deep amethyst-pink, veined dark mulberry; F. similar but darker; beard bronze. Black signal. THESUS X Wo 1 Sdlg. (C. White). Here we have an arilbred that has as clear a signal as any pure onco. The name was given because from a distance the signal looks like a large bumblebee sitting on the falls. It is extremely hardy and easy to grow. Does not go dormant and increases rapidly. All sold out in 1966, and will not be offered for sale again before 1968 or 1969.

DREAM STEP. Regeliocyclus, 18", E-M, Sdlg. 65-6. S olive-cream, chartreuse-green at midribs; F same except with chartreuse lines; beard brown. KOROLKOWII (brown and green) X I. GATESII. This plant does go dormant at times, but sometimes stays green all summer; but never has to be lifted. The entire flower resembles I. GATESII; not nearly as large, but hardier than both of its parents \$15.00

PERSONALITY QUEEN. Arilbred, 24", E-M, Sdlg. 65-15. S pink to lavender; F same; dark brown signal; beard brown. THESEUS X (IMAM SALAH x IMAM AHMID) x KALIFA GULNARE. This plant resembles its mother, but is larger and very much easier to grow. Does not go dormant at any time \$5.00

1964 Introduction

FLURRY OF NEPAL—Color clean bronze gold. Beard darker. Black signal. Very vigorous plant. Fertile both ways. Easy grower. About 30" tall. Three way branching. Seedling #62-1-1. (SNOW FLURRY x ASOKA OF NEPAL) X ASOKA OF NEPAL. H.M. 1965 \$15.00

1963 Introduction

PLATINUM DIAMOND—Oncocyclus. E. 16". From NAZARENA x GATESII. Color buff yellow to graying green, with black veins and dots. Pure black signal. Extremely fertile both ways. It is proving itself as a breeder. H.M. 1965 \$35.00

1962 Introduction

FLIRTATION WALTZ—This flower is deep orchid with typical onco shape. Quite flaring. At times will set seed. Is from ELMOHR X MULBERRY ROSE. This is a ladies' flower, because any woman who sees it goes wild over it. This is the main reason this flower was introduced. H.M. 1964 \$5.00

Aril Slides

We have two slide collections of 150 slides in each of pure arils and arilbreds taken in our garden during 1963 to 1965. These may be had free to any person who wants to show them to a flower club or social gathering interested in aril irises. A thirty-day notice must be given to assure them for a certain date.

SEND FOR CIRCULAR for other Arils and Arilbred irises

HENRY DANIELSON

Visitors Always Welcome

THE MEDIANS

Pumila - Talls – the Lilliputs

JOHN E. GOETT

Many articles have been written regarding the standard dwarf bearded irises, their advantages in the garden, progress in the type, and suggestions for breeding them. These 10- to 15-inch irises, branched and usually early blooming, have gone through several stages of development and now no longer are novelties. The class is stabilized, and future progress is predictable.

Actually, the lilliputs are nearly twenty years old. For the first few years, hybridization was mainly by the originators of the class, Paul Cook and Geddes Douglas, joined by Walter Welch, Schreiners and few others. The four crossed *pumila* pollen onto tall bearded varieties with interesting results, introduced the best, and started off many other hybridizers.

In the second stage there was testing by hybridizers who were trying to determine which *pumila* clones were the best and which tall bearded types should be used. Efforts were made to develop the ideal *pumila* for use on the talls. Many ideas were checked. It was thought that smaller-flowered, short talls would be best. There is no doubt the tall bearded irises often give 20-inch high lilliputs, and large-flowered talls did throw many oversized blooms in the first generation. However, it was not that simple, and many types of tall bearded irises have produced beautiful small irises.

This second stage, therefore, was mainly an effort to develop the best form of which *I. pumila* is capable and to choose the best talls for the combination. Thus, progress during this stage was the result of developing the best forms of the two iris types and then selecting from the F₁ crosses. However, during recent years there have been few *pumila* x tall crosses made except to find new genes in *pumilas* from Russia and other new locations, since the original stock of *pumila* was limited and may not have contained all possible genes.

From robins, personal discussions and letters, it now is evident that the activity of most median hybridizers is centered in crossing standard dwarfs with like varieties, and then following up with sib crossing. Line breeding has been evident, and various hybridizers have specialized in particular types such as plicatas, blends, or strains with spots or contrasting beards, etc. Thus, we have done much of the spade work of getting desirable genes into the 40-chromosome gene pool, and are now busy intensifying factors and refining colors and types, just as the tall bearded hybridizers work.

We admit we have a lot more ground to cover before we catch up to their levels; but in some ways we are ahead of the tall bearded irises, because our class has developments not yet reached by them. Look at our yellows, tans, etc., with the violet beards: BLUEBERRY MUFFINS, EASTER HOLIDAY, GRACE NOTE and ZING. They all are nice irises, showing a beautiful clear violet beard contrasting with a basic yellow iris. There is no wonder that all four of them have achieved great popularity and have received judges' approval, as evidenced by the voting for awards. This is probably the latest

color novelty in the iris world, and will continue in popularity for a long time to come.

In the pink classes the breaks have come; improvement is the watchword. Now, line breeding of the Dave Hall type will bring forth the clear, well-formed beauties which are now possible, since all the needed genes are present.

The plicatas started with poor substance from CRETICA, but now with sib crossing as far as the fifth generation from CRETICA, I can tell from personal experience that all the various types and colors can be produced. It is an exciting and rewarding experience to make crosses that you think will throw TEA APRON types, or STEPPING OUT contrasts, and then to check the progeny and find them. They may not show the perfection in form or branching that you might wish, but that too is just a question of time.

Our blues, whites and yellows are already superb, though there is always room for improvement. All classes are open; come on in—the water is fine!

Intermediates

ALTA M. BROWN

Up until 1955, I had been crossing the miniature dwarf irises, but when my first standard dwarfs bloomed that year, I thought, "Why not try my hand at hybridizing those, also?" BARIA and GREEN SPOT were still in bloom when the talls began, so I put pollen of LIMELIGHT, BRYCE CANYON, COURTIER and a Hall pink seedling on several of the blossoms. Full pods of seed were set and planted that fall. When the seedlings bloomed in 1957, I was thrilled with the beautiful array of colors, all in a new size to me. BARIA × LIMELIGHT was a very good cross and gave me a long row of yellow and chartreuse seedlings with good shape and substance. Several of these were of naming quality, and one was selected as being especially nice. It later was named LIME RIPPLES.

Another cross, GREEN SPOT × BRYCE CANYON, gave some very odd color combinations in browns, reds, lavenders and bicolors. Most of them had a dominant spot pattern and much haft striation. One was such an unusual color combination and was admired by so many of the garden visitors that we decided to name it ALIEN.

Since those first crosses in 1955, I have used many different SDBs with many different talls, all with varied results. The talls that gave me the best intermediates are LIMELIGHT, SNOW FLURRY, ROCOCO, WHOLE CLOTH, MELODRAMA, EDENITE, FLYAWAY, IRENE BROWN, HUNTSMAN, LOVILIA, some of our TB seedlings, and the arils, BALI AGHA and IB MAC.

Standard dwarfs that have been used with the above talls with good success are BARIA, GREEN SPOT, SNOW ELF, GREEN LILT, DALE DENNIS, KNOTTY PINE, PLUM DANDY, seedling M 61 (SNOW FLURRY × SEA O' BLUE), and other seedlings.

Intermediates produced by crossing SDBs with TBs are of limited fertility and fewer seeds are obtained. One should make many pollinations of a desired cross to get the desired number of seeds. I have bred the intermediates with miniature dwarfs, standard dwarfs, other intermediates, borders and



Alta Brown in her median garden
(Picture courtesy *Seattle Times*)

talls. With the mixing of all of these genes, there are great possibilities for unusual hybrids in the future.

Since I am a bit partial to clean, clear colors, most of my work has been to obtain these. Other hybridizers are working to bring the spot pattern of *I. pumila* up through the SDBs, IBs and on into the talls. This, when accomplished, will give many new color patterns to the talls. Who can foresee what the popular iris of the day will look like in twenty-five or fifty years.

Some nice varieties have come from crossing the intermediates with the talls. One with pale blue standards and near white falls, tinged with green, now named ISLE OF DREAMS, will be introduced in 1967. This is from a sister seedling of ARCTIC RUFFLE and ARCTIC FLARE X WHOLE CLOTH. Hybrids of this nature cannot be produced in any great quantity; but surprisingly enough, are being found to be quite fertile. These also segregate into various sizes and heights, so eventually we should have many different sized hybrids that bloom with the talls.

A great part of my hybridizing has been concentrated on trying to produce pinks in the intermediate and standard dwarf classes. I have grown many pink intermediates from crosses of yellow SDBs (TB pink X yellow *pumilas*) onto tall pinks. Most of these have poor shape and substance, but

one, PINK PRIDE, has all the desirable characteristics of a good tall pink, but with smaller, daintier flowers that bloom before the talls. One nice pink SDB, now called PINK CUSHION, has been selected for 1967 introduction. This is from (TB pink x yellow *pumila*) × sister seedling. With this fertile pink dwarf along with those of Earl Roberts, there are unlimited possibilities for improving the pinks in the intermediate and standard dwarf classes, as well as getting pink hybrids in the miniature dwarfs.

There are, in fact, unlimited possibilities in our color classes, and we can expect all sorts of surprising breaks in our future work.

Border Irises

Opinions and Experiences

BENNETT C. JONES

Almost anyone who has worked with tall bearded irises for any length of time will have found among his seedlings those small plants too good to discard, yet too small for his intended purpose. These are border irises—sometimes. They are, at any rate, the reason for the existence of the border bearded classification within the median group. Without question some good border irises will originate from tall seedlings, though the majority of them have serious faults to begin with, and many of the better ones behave in strange ways when sent out into the world to prove themselves. Most often they "grow up," exceeding considerably the height and size specifications prescribed for them.

If the border bearded irises are to emerge as they were originally intended, it seems only reasonable that methods other than just "finding" them will have to be employed to produce them. As much thought and hard work as is required to produce other kinds of irises, and perhaps a more discerning eye for selection, will be required in the process. Unlike life, the best things in irises are not free.

When asked to write about border irises, I accepted, regretting at the same time that most of what is to be said of them at the present stage of their development would be personal. This is true partly because so little has been written of them to date by the very few hybridizers who are working seriously with them, and partly because there are differences as to what a border iris should be. What follows, then, are my opinions and experiences, presented for whatever value they may be to anyone interested in the type.

The plant I have in mind is one that will be in scale at the front of the border in a large garden, and in the small garden where its taller relatives would be overpowering. It must be immediately distinguished from a tall bearded iris; otherwise there is nothing to be gained in the existence of the classification and questionable value placed on any award it might receive.

The hybridizer is limited in his work only by the limitations of height, as stated in the classification, his imagination and taste. With clearly defined

limitations of height, I work to the middle, hoping to compensate for shorter or taller growth caused by climate, soils and culture in distant gardens.

Working for such a plant is, generally speaking, a reversal of the process that made the tall bearded iris what it is today. It is a matter of reducing the size of the plant and it seems only logical that all parts of the plant should be reduced in proportion, though that is a matter of taste and an opinion not shared by all. Perhaps more aptly stated in a robin, "If one has a recipe for six portions but is preparing it for four, *all* ingredients must be reduced in proportion." In this instance, I'd prepare the full recipe, as I enjoy leftovers, but I don't like them in irises.

There are as yet no keystones to aid the beginning worker, no SNOW FLURRYS, CHIVALRYS or PINK FORMALS to give immediately good results, and this is where imagination and ingenuity enter the picture. FRENCHI and PAGODA were "found" irises; neither has produced an introducible seedling as yet, though each generation from them yields more acceptable size, proportion and flower, which has resulted in what may be some valuable plants with which to work. At least, there is a stable of proportioned plants that grow comfortably within the limits of height. LIPSTICK, LITTLE DUDE, PINATA, NANCY JEAN and BLACK FOREST are others that will give good small irises when crossed to other small ones. This approach, then, amounts to using the small irises one finds among the talls to produce what I call a true border iris—one that fulfills the original intent of the class. It was my intention to select for size in the beginning, though always watching for branching and flowers to go with it. I found, however, that in succeeding generations all of this occurred in one plant, making it generally unnecessary to carry on separate lines for each.

The tangerine bearded family seems to lend itself most easily to border bearded work, though the pinks derived strictly from tall bearded lines have had faults difficult to eliminate. The best color seems to be linked with poor substance, for instance. Oranges and apricots behave better in this respect, and I was pleased with some red-bearded whites last spring.

Not often does one find a good small seedling among the tall blues or yellows. LITTLE DUDE, a fine blue, is an exception, and for me it has been an excellent parent. Crossed with BOB'S BLUE, it produced some small blues which, when sibbed, gave me this year some border size seedlings which would delight any hybridizer working with the class; slender, graceful stems, well-formed flowers, on nicely proportioned plants.

The scarcity of named border irises in other classes indicates that methods other than the tall bearded approach will be necessary to produce them. The intermediate iris is the obvious answer and initial results of crosses between border and intermediate irises have been rewarding. A cross of POLAR CAP and PROGENITOR gave some small seedlings, including an amoena of acceptable quality which, with the help of WHOLE CLOTH and KISS ME KATE, led to the introduction of two border irises, GLACIER BAY, an amoena, and CRYSTAL BAY, which is white with a blue border on the falls.

Last spring reciprocal crosses of CRYSTAL BAY and the lovely little blues from LITTLE DUDE produced a quantity of seed which should result in some really good material to work with.

A long line of the *pumila* variety, CARPATHIA, crossed with tall pinks, eventually gave me some small intermediate seedlings with tangerine beards

which I successfully crossed onto selected tangerine bearded border bearded seedlings this year. Such crosses are not easy to effect and it is my experience that germination of the seed is often quite poor, but the results are worth the effort. One of the tall pink \times CARPATHIA seedlings was a standard dwarf variegata, selected for its slender foliage and exceptionally fine form. This, crossed to a small tall pink, gave some unusual color patterns, including a pink with a rose-brown spot covering half of the fall.

A tall bearded iris with a spot pattern seems a worthwhile and not unattainable goal, which might be accomplished by first putting the spot pattern onto the border iris, another reason to employ the intermediates in border work. Bob Schreiner has done notable work in this area, beginning with a cross of JANE PHILLIPS \times *pumila*, which led to the varieties CUTIE, DRUMMER Boy and TAMINO. These are intermediates, but from this line there are now two seedlings with spots which flower with the talls. One of them is of considerable beauty, due to the neatness of its blue spot pattern and the generous amount of turquoise it contains. My work in this area began with an apricot border seedling which had a large patch of deeper color at the haft. This was crossed with FOREST GLADE, a handsome small iris from Mrs. Jean Stevens. Pale yellow with a large deep brown spot, it came from APRIL MORN and a tall pink amoena. The seedlings bloomed last spring. All had spots in various degrees of intensity; most were deeper yellow on yellow ground. The rewarding one was light yellow with a large deep brown spot edged white. Quite different and exciting.

It is the opinion of some that to work with the small iris from the tall seedling patch is to work with a plant that is basically weak, a runt in the first place. I suggest that such an opinion is premature and most likely based on a very limited experience. In my garden three 40-foot rows of working material do not bear this out, but then I may be premature in making the statement. This work is too new, and too few are working on any scale with border irises to provide much in the way of conclusions as yet. If, after a time, it is discovered that weakness is inherent in these "found" irises, it will then become the work of the hybridizer to correct that fault. The plants, for instance, that I have raised from using intermediates and standard dwarfs with small talls have been most vigorous.

There is adventure in working with border irises, there are rewards, and surely the class is worthy of more than just any plant one happens to find among the talls.

Miniature Tall Bearded Irises

JEAN WITT

Numerically speaking, the miniature tall bearded irises still bring up the rear among the four classes of medians, but the number of new varieties has shown a definite increase in the last couple of years. The number of MTBs appearing at iris shows also has increased. In Seattle, for instance, this year we had twenty-seven named MTB entries, plus five seedling entries. Additional seedlings illustrating various MTB breeding approaches were exhibited in the median iris section of the educational display; several

MTB species also were represented. It pleases me to report that the seedlings and new introductions as a group showed considerable improvement over the older named varieties, especially in color and form.

The challenge of the rather strict requirements of the MTB class—a flower about 2½ to 3½ inches on a bloomstalk 15 to 25 inches tall (28 inches really is straining proportion for a flower of this size, although presently allowable)—seems actually to intrigue breeders, and they are meeting it in several different ways.

Various combinations of the original MTB varieties with smallish diploid BB still ranks as the number one breeding method. A few lucky things have come from the F₁ seed plots, but in my experience the F₁ are more often “near misses” and good parents. Now that F₂ and later generations are appearing, we are coming closer to our goals of thinner stems and improved color and form. TOPSY TURVEY, a flaring, yellow reverse bitone, is a fine example of the “new look” in MTB, and has received many compliments. BLUE TRIMMINGS is a little neglecta with erect, frilly standards and velvet, pansy falls. Viewers are sharply at odds over BROWN CROWN. They either rave about the color combination, tan-brown, with a startling violet blaze on the falls; or they can’t stand it. Though registered as BB, this has settled down to MTB size. FIRST TIME is a variegata with yellow standards and falls overlaid rose, and has good flaring form. MOCKINGBIRD is an interesting striped plicata marked in purplish brown. More delicate is PIXAKEET, with dainty blue dotting on white. (Its parent ZIMBRAKEET has been reluctantly reclassified as BB.) DESERT QUAIL, a yellow and brown plicata, remains one of my favorites.

Other breeders have been making use of some of the diploid species, including the dwarf ones. At least two *I. mellita* derivatives have arrived at the registrations stage: CHARLIE BROWN (SISKIN × (PINK RUFFLES × *mellita*) is a jaunty little tan-apricot that begins the MTB season and keeps PEWEE company. Its proportions are excellent, and it forms large clumps in a single season. FRENCH TONES (FIRST CALL × AUGUSTE RENOIR) has a new and different color combination of lilac-gray standards and yellow falls.

Another species that is showing considerable promise as an MTB parent is *I. reginae*. This little “blue variegata” is the original “one man’s weed is another man’s treasure.” No one would claim that it is a garden ornament in itself, but it passes on to its seedlings precisely the sort of slender well branched stems we are after. Unfortunately, it also bequeaths its narrowness of petal, and an effort must be made to cross it with wide-petalled things. The only named clone from it thus far is JET PERSONALITY. It has much of the species form and color, but it is a far better grower. Most of my seedlings from *I. reginae* have been dainty variegata blends, of which the best is a tan with brown stripes.

I. variegata and *I. cengialtii*, of course, were in the background of the original table irises. Now, however, a much greater choice of smallish diploid material is available, including “yellow” and “white” variegatas, and the late blooming tan and brown *I. variegata* var. *pontica*. In the blue range we have our choice of several species: new clones of *I. cengialtii*, *I. pallida* clones of short stature, *I. illyrica* (my personal favorite of the lot), with very ruffled, rather long, flowers of smooth, medium blue, and *I. rudskyi*, light blue with brown hafts. We are hopeful that better MTBs from these smooth

'pallida' types shortly will replace the 'vciny-grainy' BLUE MOUSE sort, which have been far too typical of the MTB blues of the past. F₁ results from purple *I. perrieri* have not been very exciting, but we have not yet seen the F₂.

At least two other approaches to MTB are bearing fruit. Ben Hager has introduced the first of his *I. aphylla* hybrids. In contrast to all the foregoing varieties, these are tetraploids; and though their stems are stiffer than those of the diploid MTB, they are if anything more slender. Mr. Hager used several different *I. aphylla* clones, but found that dirty little THISBE gave the smallest seedlings with least dominance of *aphylla* color. Small tetraploid BB gave much better results than the full size TB. SHRINKING VIOLET (BLACK FOREST × *I. aphylla polonica*) has flaring, violet flowers with a pleasing lilt to the petals. This is a particularly interesting combination, as BLACK FOREST has been on our list of breeding possibilities for years as a producer of smallish things; and in my garden *I. aphylla polonica* is almost a MTB itself. ENTR'ACT in soft yellow comes from JUNE BRIDE × THISBE; EN ROUTE from ROBERT MELROSE × THISBE also is yellow, while SCALE MODEL from the same parentage is a buffy bicolor.

From crosses of small pink BB comes LITTLE ME (FRENCHI × PAGODA) as a contender for the honor of being the first pink MTB. Marilyn Sheaff, who also is working toward MTB from BB pinks, reports very considerable success with her slim-stemming efforts. (Her pink and white BBs from these lines look good enough to eat; one even is named STRAWBERRY PARFAIT.)

Of the MTB guests that bloomed in my garden during the 1966 season, the most intriguing were a set from Stanley Street. These were crosses between various older MTBs and "Quail" and "Rattlesnake" (the former a seedling and the latter an unidentified "oldie" of MTB size.) "Quail" resembles the old triploid AKSARBEN, brown striped and dotted on nearly white ground; very different from the general run of contemporary plicata pattern. ("Quail" × ZINGARA) had this same heavy pattern on orange ground. My favorite was a ruffled orange blend. There also was a little lemon and lavender plicata from FRISCOETTE.

RANDI LYNN is a tiny little orange and red-brown variegata, of much better form than earlier MTB variegatas. BLUE THREAD is its neglecta counterpart, a striped pattern altogether different from the solid falls of BLUE TRIMMINGS. Four new things are making their debut from Dorothy Guild: SPARKLE BRITE, an EVER SWEET seedling with straw yellow standards, falls edged the same, and brownish red striping; WHISPERING SPRITE, a NAMBE seedling; ELEGANT TRY, a wisteria-blue self; and GALA FIESTA, brown standards and falls edged the same with a violet-blue blaze. These were selected from a large bed of MTB crosses, which attracted considerable attention at our regional meeting.

Quite different is PEN PAL. The flowers carry as white in the garden, but it actually is a delicate "amoena-plic," with blue markings on the falls only, looking for all the world as if they had been applied with a crow quill pen.

Alta Brown bloomed a long row of MTB seedlings this year. One that I remember was a sort of orange and brown plicata, of much stronger color than KINGLET. She is introducing DAINTY DAMSEL (DAINTY DANCER × DESERT QUAIL), with standards of medium yellow and falls of light yellow,

dotted and veined in light lavender. Her DAINTY DANCER has much better form than NAMBE in similar colors, and has been very popular.

CLAIRE LOUISE has performed well in my garden, although Mary Louise Dunderman writes that she already has a better white, as well as an orchid-pink prospect and an orchid and white amoena.

Ruth Stephenson's light yellow, which has been passed around among MTB breeders under the number 10-X, is being registered as ORPHAN ANNIE.

BUENITA has been larger here than in its home climate, but has a great deal to offer, both in its apricot color (the beard is near tangerine) and its stems—the branching is fantastic, with 18 to 21 buds. Are all these apricot and orange seedlings that I've mentioned trending toward a diploid tangerine bearded pink? We wish we knew. All that can be said now is that the paper chromatography does show a pigment other than the yellows in the red-orange beard of one of my GOLD STREAM-PIXIE seedlings, and that this seedling shows more of this pigment than does its parent.

As for the rest of my MTB seedlings, several of the best prospects from previous seasons grew up and out of bounds. One of the ruffled orange-bearded whites from DAYSTAR will bear watching another year. I finally settled on two for naming: PALE WINGS, a flaring, very pale blue self from the old diploid white LA NEIGE; and DOTTIE, a pretty orchid-pink on white plicata, descended from DAWN. DOTTIE, unlike many MTBs, produces lots of fertile pollen and sets seed easily in funny little short fat pods. With luck, it may be our opening to good orchid pinks to replace TWO FOR TEA, which still is our only representative in this much needed color class. Plicatas with almost flesh pink dots, and orchid-pinks with orange beards, turned up in some of my other lines; these have been crossed with DOTTIE.

Most of us feel that the breeding problems of earlier years have been largely conquered. If we have not arrived at all of our goals, at least we are well on our way. Meanwhile, two new problems have come to the forefront: (1) MTBs, more than any other median class, are plagued with regional variation. We hope that some of the testing currently being conducted, will help us determine the limits within which an MTB from one part of the country will perform as an MTB in most other climates. Beds especially for MTB, bold old and new, have been established in the iris gardens at Kingwood Center, and at the Waltham Field Station. A greater effort is being made to send new MTB seedlings to convention gardens, and we have been promised that they will be grouped together and not buried among the TB. (2) Too many of our MTB registrations of the last few years subsequently have been reclassified as BB. To avoid this nuisance, we offer two suggestions; first, to observe any prospective seedling's growth habits over two and preferably three seasons; and second, to grow a couple of the well-known MTBs, such as PEEWEE, WIDGET, or DAYSTAR, so that you will have a standard of comparison in your garden, particularly as to proper thinness of stems.

Hybridizers: Be sure you register your guest irises at Denver with Clifford Benson, so they will be included on the GUEST IRISES BALLOT.

The Unpredictable Species

CHARLOTTE GANTZ

"Iris species" means very different things to different growers. To an iris enthusiast "the species" are primarily some of the native irises of Asia—pure oncocylii and regelias. Our British friends are likely to think of the apogon division of the Pacific natives so well grown by Mrs. E. M. Osborn and Mrs. Leonard Brummitt, or of *I. ruthenica*, *wattii*, *japonica* and the like. But to the grower of bearded dwarfs and median irises, "the species" are the bearded irises of southern and central Europe, with a few pumilas and aphyllas from the Soviet Union included. It is with this latter group that I shall deal here.

Most people can grow tall bearded irises. Intermediates and standard dwarfs are almost as easy, but when we come to miniatures—particularly pure pumilas—climate is a decided factor. This is even truer of most of the other iris species, and, speaking very roughly, the optimum area seems to be a belt across the country which includes New Jersey, Pennsylvania and probably southern New York and Connecticut on the east coast, and which travels westward through Ohio, Illinois, Indiana and Kansas. How much of the far west can be included, I am not yet sure, but it is likely that Colorado and Washington should be among the states listed. (This rough estimate is based on replies to a questionnaire sent out by the MIS this past summer. Probably some bordering states or parts of them should come into it as well.)

It is true that some of the species are definitely not limited to the belt, *aphylla* generally being hardier, and *I. chamaeiris* doing well even far outside the belt, being one of the few that can be grown in warm climates. *I. subbiflora*, on the other hand, which it was hoped would be the answer for areas such as southern California, Texas, New Zealand and Australia, has not proved quite as successful below the equator as we expected, at least judging by a few reports from "down under."

But the more difficult species: *I. attica*, *pseudopumila*, *mellita*, *reichenbachii*, *bosniaca* and *balkana* on the whole do better within the belt than outside. Even here, though, their behavior is not always certain. Much depends upon soil, rainfall and even conditions provided by the gardener. This group seems to respond to a soil mixed with plenty of compost or peat moss and to good drainage. A mulch, such as buckwheat hulls or ground sugar cane, is obviously helpful in times of drought, and I was interested to find that a light carpeting weed such as milk purslane (*euphorbia supina*) could provide much the same soil protection. Winter mulching is also a necessity, with salt hay probably as good as anything. Mrs. Walther uses this in the Presby Gardens at Montclair, N.J., and she maintains a remarkable number of the species. Further inland pine boughs seem to be reasonably effective, particularly when combined with the sugar cane mulch.

But even with such care, the species remain unpredictable. *I. attica*, for instance, thrives for me in eastern Pennsylvania, while *pseudopumila* just dwindle away. Yet many growers further west maintain "sudo" without too much trouble, and it's *attica* they cannot keep. The palm for being the most difficult goes, apparently, to the 48-chromosome *reichenbachii*. Very few can

grow this, and we have to look to its close relatives, *balkana* and *bosniaca*, or to the diploid *reichenbachii* instead. In view of the fact that problems do exist, particularly in some areas, the best answer, at least for hybridizers, probably is greater distribution of pollen.

And now the breeding possibilities—for, of course, this is why most iris growers want the species. But here, too, there is uncertainty; for, as we are beginning to realize, different clones of the same species will give widely different results. No longer can or should one say “aphylla” does or does not give well-branched offspring, or that its children are always going to be purple or violet. Nor can one predict a blue beard with any certainty. First and foremost is the matter of the clone that is being used. Of course, most *aphyllas* do give branching and often give purple seedlings with blue beards, but it's quite possible to have a majority of the F_1 seedlings in white and pastel shades without blue beards, all determined by the particular *aphylla* parent.

Many of the miniature dwarf species—*attica*, *mellita* and the *reichenbachii* complex specifically—seem to have an anthocyanin inhibitor or partial inhibitor for the standards only, resulting in amoenas, bitones or neglectas. But, sometimes this is evident, sometimes not. In some cases, particularly with *attica* and *reichenbachii*, the inhibitor may be effective for the whole flower color. On much of this we simply do not have enough information to suggest likely answers. *Aphylla* has been better studied than any species other than *chamaeiris*, and even here, we are far from being on sure ground. But with the group mentioned above, it is quite possible that some of that variation may be due to a difference in the clones that have been used.

Obviously, far more work needs to be done with all of the species, but here again the uncertainty of their behavior plays a part. One hybridizer may decide to work on *attica* only to find that for him its pollen gives remarkably few takes and that it generally refuses to set seed. Let him generalize about *attica*, though, at his peril! For someone in a nearby state may be getting a surprising number of pods with *attica*. Another clone? Very likely. A different climate? This is an important factor. Probably used with different parents, and, of course, quite possibly with more perseverance. But, it seems as if a would-be species hybridizer should first find out what species he can grow (or alternatively what species pollen he can collect for use with garden cultivars) and then determine what crosses he can make with any degree of success. And, it's not as limited as it sounds, for such an enormous amount remains to be learned that even work with one or two of the *reichenbachii* group, or with *subbiflora*, or *mellita*, or even with *aphylla* is likely to add to our knowledge and prove very worth while. This is particularly true in view of the different results to be obtained from different clones.

At times, of course, it will seem very slow. Even when seeds have been planted, germination often fails to take place. *Mellita* is a particular offender in this respect; but frequently germination occurs with the *mellita* seeds in the second year, so don't give up too soon. Also, just as one has accepted a pessimistic outlook, the unexpected occurs and there is surprisingly good germination. In any event, *aphylla* and *balkana* are normally much less of a problem in this regard.

The tried and true methods for finding out the possibilities of a parent—

selfing and sibbing—often prove impossible for a particular breeder. Note we don't say "impossible" by itself. Almost every one of our species group has been selfed—or if not that—different clones of the same species have been intercrossed, although any one person trying it may find that he or she just cannot do the thing. On the other hand, the cross that many another good hybridizer has failed on, may chance to work in your hands. Yours may be the dozens of good seedlings; yours the chance to see what it will give! To many of us this is far better than the biggest fish ever caught. It's the fascination that makes the whole game worthwhile. Not just another tall on tall, something that the veriest tyro could achieve, but *attica* by self; *aphylla*, *reichenbachii* or *balkana* crossed with a *regelia*; or even such a very modest cross as *aphylla* S-2 GENEVA podded with CRETICA. (In this last case, observe that it is not just "*aphylla*" × "*pumila*" of which we have had scores of crosses, but a particular *aphylla*—one which has given interesting results—used with a particular variety of *pumila* of which we would like to know more.) One can dream of seedlings such as these.

I have spoken of the unpredictability of the species. Before I have finished, a word should be said about the unpredictability of that odd group—the species hybridizers. Not so long ago a bearded iris was judged by how nearly it approached the standard of excellence as exemplified by a "good" TB. Species irises with big globular standards and tiny tucked falls (*balkana* comes to mind) used to be considered ugly, and such of their offspring as copied the parent were classed as "dogs." The whole aim of such breeders was to get whatever they thought was of value from the species—branching, a different beard, the smaller size—and to retain or recover the classic form of the bearded tall.

Today some of us are taking a new look at the small, less imposing species. The big standards and small falls are no longer dismissed as "impossible." *Balkana* and *mellita* for us have a very definite charm, in some cases reminiscent of pure oncos. When F_2 seedlings closely resemble their tall parents, with the "species look" gone, some of us are dismayed. We no longer rejoice solely over wide flaring falls and neatly closed standards that are in complete proportion, according to the TB ideal. The elusive wild look, that something different, has disappeared, and we are far from pleased.

Note, please, that I refer only to some of the species hybridizers. Many, perhaps most, still accept the conventional, well-established standard for a good iris. Those of us who do not in most cases have also ventured into the field of aril breeding. But, the result of our maverick learnings is further crossing to other species. Suppose, for instance, that (TB × *balkana*) × TB comes out looking like a very respectable tall. A back cross to *balkana* is indicated, but instead we try an arilbred. That works! Well, then, *aphylla*, too! And perhaps a *reichenbachii* hybrid!

Bee Warburton has commented on the fact that Paul Cook thought such random crosses would lead to an obliteration of the particular species. It may be that our mixing will produce a hodgepodge of characteristics. We definitely risk loss of fertility, and certainly it's no way to determine the recessive traits of a species. On the other hand, it may provide useful information on interfertility of the species, and even—for no one ever knows what such far-out experimenting may bring about—an iris that will be hailed as one of the "good" flowers of the future. At least we can say we are on the track of the "unpredictable."

SPECIES EXHIBITS

CAROL RAMSEY

Why wait until your next iris show to exhibit your species irises, or any iris for that matter. If it's blooming, show it at iris society meetings or your next garden club meeting. Label the iris properly and display it. Several clubs do this, and it affords yet another opportunity to acquaint the public with other than the standard irises.

Scheduling a species section for your large iris show is another matter. Some schedules ignore the subject completely, and others list them variously under "Species Irises," "Other Irises," or even "Any Irises not listed elsewhere." This stepchild approach hardly encourages the average exhibitor. A more definitive scheduling of species classes would be very helpful.

Scheduling will vary somewhat, depending on what species are grown in local areas; and should the sponsoring club's budget permit a more elaborate schedule, a list of examples under the different classes would be ideal. However a club's schedule committee wishes to handle it, it would be interesting to see some efforts made toward better scheduling of species irises.

Australian show schedules commonly carry one section devoted to all iris species, with separate classes listed for each type grown in that region. As species irises are widely grown in Australia, one finds this section concerned with species to be as large as the section for tall bearded.

A different method of breaking down the species classes is illustrated by excerpts from the schedule of the Northern Illinois Iris Society for its 1966 iris show, wherein the aril species, the bearded iris species, and the beardless iris species are listed in different sections as follows:

SECTION C. ARIL AND ARILBRED IRISES

- Class 1. Pure aril, oncocyclus species and true hybrids
 - 2. Pure aril, regelia species and true hybrids
 - 3. Pure aril hybrid, oncogelia and regeliocyclus
 - 4. Arilbred, tall
 - 5. Arilbred, median and dwarf

SECTION E. BEARDED IRIS SPECIES

- Class 1. Tall
 - 2. Median
 - 3. Inter-specific hybrids

SECTION G. BEARDLESS IRISES

This section will be subdivided into species and garden hybrids where specimens of both are entered.

- Class 1. Siberian
 - 2. Spuria
 - 3. Crested
 - 4. Pseudacorus
 - 5. Virginica and versicolor
 - 6. Louisiana
 - 7. Bulbous
 - 8. Inter-specific hybrids
 - 9. Any other

The schedule has yet to be developed that cannot be improved upon, and our schedule committees will do just that. And, let's not forget the artistic division—one or two of the artistic classes could well call for the use of species irises.

We are grateful to the Northern Illinois Iris Society for the use of their schedule.

A New Color Class in Medians

EARL R. ROBERTS

(First President MIS. MIS Test Garden Operator)

The production of a new color class in irises generally is the result of years of planning by an experienced hybridizer, or the result of a color break. In the case of the lilliput pinks, they appear in such qualities that we have to call it a color break, even though the crosses were designed for pinks from the start.

The term "lilliput" may be confusing to some readers. In MIS circles it is known as a cross between the dwarf *pumila* and a tall bearded iris. The cross may be made either way, i.e., tall bearded by *pumila* giving the same results. The first generation cross produces the typical lilliput class of medians having flowers about 3 to 4 inches across on stalks ranging from 10 to 15 inches in height, classified as the SDB—standard dwarf bearded.

In our quest for a dwarf pink, I used my own *pumila* introductions, BROWNETT and BARIUM GOLD. BROWNETT, a 4-inch tall miniature dwarf in bright yellow with a mahogany spot on the falls and a white beard, when crossed to tall pinks, gave only yellow seedlings, most with yellow beards. Sib-crossing these F₁ seedlings again gave only yellows, but with a faint hint of tangerine in some of the more orange beards. One seedling was close to orange in color, but no pinks appeared.

BARIUM GOLD is a 3½-inch dwarf in bright barium yellow with a deeper spot of color on the falls and a most unusual orange beard, the first *pumila* ever introduced carrying this color of beard. Both BARIUM GOLD and BROWNETT came from a bee pod on CARPATHIA, which is known to have 32 chromosomes. BARIUM GOLD was counted by Dr. Randolph and Mitra as 31 chromosomes, which is intermediate between that of CARPATHIA (32) and NANA (30), which were planted in the field nearby. Pollen from BARIUM GOLD was used on several pinks; and also on a tall bearded orchid seedling with a red beard which we had raised from intercrossing two Hall red-bearded whites. This tall orchid seedling × BARIUM GOLD was the only pod that formed.

First generation seedlings were all yellows. Most had a deeper golden spot on the falls and yellow to orange beards having a faint tendency toward tangerine. Having already bloomed the F₂ cross from ((BROWNETT × pink) × sib)) and getting no pinks, we decided to outcross this time.

For years we had been admirers of Ed Zickler's particular brand of hybridizing, which had already produced a flesh-pink lilliput as well as some near pinks under ten inches in height. This flesh pink was given the garden name of "Pink Maker," so called because of its unique ability to throw almost 100% pinks when crossed back to tall pinks. Its parentage is (Tw-

LIGHT SKY x white *pumila*) × (DESERT SONG x white *pumila*).

Three of our yellow lilliputs out of (tall orchid seedling × BARIUM GOLD) were crossed with pollen of "Pink Maker," with the following results: The first cross (62R8 x Pink Maker) gave 22 seedlings, all yellow with the exception that one had falls lightly overlaid in pale blue, while two carried a pinkish buff overlay in the standards and haft area, but no real pinks. The second cross (62R9 × Pink Maker) gave over 70 seedlings, all yellows. The third cross (62R8A × Pink Maker) bloomed 51 seedlings: 20 pinks, 19 yellows, 7 pale blue amoenas, 4 purples, 1 apricot. The pinks can be further broken down into: 11 buff-pinks with deeper spot pattern; 6 pinkish amoenas; and 3 deeper colored pinks, plus the apricot. To date we can find no satisfactory answer to the problem of why two sister seedlings gave no pinks at all, while the third gave 21 out of 51. This is close to a 1:3 ratio, and genetically this appears almost impossible, but it happened. All seedlings were highly fertile and vigorous, ranging in height from a down-in-the-foliage 8 inches to a better proportioned 14 inches. Form is hardly perfect as some tend to strappy or pinched falls, haft markings, all tailored forms; but they are acceptable in view of their originality in color.

Four of this cross have been registered as of late 1966, while still others will be sorted out in 1967. The finest of the pinks was named LENNA M in honor of my sister, Lenna M. Creedon. The pink color is about the color range of HAPPY BIRTHDAY, but with a deeper beige-pink spot on the falls and a wider pink edge, the beard white tipped red. LENNA M was introduced in 1966, just two years after its maiden bloom, with around 30 plants available. The second to be registered was AMBER SHADOW, 12 inches tall, in a pale flesh-pink tone with a deep beige spot and wide border, beard white tipped orange, carrying the widest petals of all. Being slower of increase, it will probably not be introduced until 1968. AMBER SHADOW was named by our horse-loving friend, Jim Crist of Franklin. A most unusual combination of canary and white was named PLATINUM GOLD; name suggested by Bonnie Dunbar. The standards are canary yellow with a white reverse and mid-rib; the falls are white with a deep lemon half spot around the white beard, a narrow lemon edge, and yellow reverse. It is a beautiful pattern and something entirely new. It is not perfect since the falls tend to be strappy, but we expect to introduce it in 1967. Named in late 1966 by Marjorie Anderson was PINK AMBER, seedling 65R8. This is a light pink with a buff-pink spot and unusual amber-chartreuse hafts, beard white tipped red and fairly nice form, 14 inches tall.

In Steve Moldovan's catalog I always read with interest his comments on "What's New in Iris." In the 1966 catalog, speaking of the advent of the new dwarf pinks, Steve forecast an entirely new spectrum of colors in medians in a few years. From what we have seen to date, it appears he is certainly right, as the new color combinations are now appearing. 1967 could show many color breaks if we have a good spring, as there are close to 200 seedlings already in good sized clumps to bloom for the first time.

The MITG is not hard to find, located just three miles south of city limits. From the junction of I-465 and U.S. 31, drive south on 31 one mile to Epler Road. Turn west almost exactly one mile to Rahke Road. Visitors are always welcome. The dwarf pinks usually bloom the first and second weeks in May, and are generally at peak bloom during the dwarf iris test garden meeting at Barney Hobb's garden in nearby Noblesville. We would be pleased to see you in '67.

Bennett Jones' Garden

GEORGE A. GALER

It was a chilly day in April when we started to gather at the home of Bennett Jones in Raleigh Hills, but our enthusiasm made up for any lack of warm sunlight; and when we saw the striking little dwarf and median irises blooming in his garden, we completely forgot the overcast skies. The sun did finally break through and murmurs and exclamations of approval could be heard from the group, as well as comments of those taking pictures of Mr. Jones' seedlings.

There was one particularly striking median, I-27-1, now named **LIGHT CAVALRY**, which Bennett is introducing in 1967. It is a flaring, deep, glowing maroon iris, standing about 14 inches high. It is nicely held, with closed standards and a velvety sheen all over the bloom. This outstanding iris has a brown beard, with just a tiny blue spot on the falls at the tip of the beard. This burgundy-maroon iris is from the red side rather than the purple, and is a median out of the well-known **CAPTAIN GALLANT**. Another burgundy, yet entirely different, is his **CHERRY GARDEN**, M-134-1, a burgundy-wine red self with a burgundy beard, standing about 12 inches high, also out of **CAPTAIN GALLANT**.

Then, in the seedling bed next to **CHERRY GARDEN**, is a violet-colored dwarf. The standards are nicely domed and closed, of a light orchid color, but the falls carry a deeper lavender-purple spot pattern. This little fellow only stands eight inches high, but is very showy. And, while going through some of the other new things just beginning to bloom (some were just opening), we discovered several new spot pattern color combinations, such as two new ones out of **BLUEBERRY MUFFINS**; one, M-170, which is an iris with pale creamy yellow standards with brilliant lime-yellow falls. But, the striking feature is the purple beard, sort of a beckoning beacon. The other was just barely opening (one fall had opened with some coaxing from Bennett). The standards were a delicate chocolate-brown with a purple influence; the falls were a deep, rich brown, having a velvety sheen and a purple beard. In another group of seedlings there were beds of blues and amethysts, some with definite deeper blue and some purple spot patterns and markings on the falls; others with definite green blazes on the falls below the beard; and many with nicely proportioned, narrow foliage tucked neatly just below ideally shaped and proper sized blossoms.

Over on the other side of the dividing path in this tremendous hillside garden is a terrific collection of standard dwarfs on which Bennett has been working for several years, and which now are producing pleasing results of which he can well be proud. For instance, there are two very cheerful little yellows. One, a pale lemon-yellow named **MERRY SUNLIGHT**, is a self, very ruffled, and has a lilting form, with a deeper yellow beard, very clean and flaring, which Bennett is also introducing in 1967. The other is several shades deeper yellow, more a butter-yellow self, with an extraordinarily smooth form with closed standards and wide, flaring falls.

To set these beautiful yellows off to good advantage, Bennett has a very

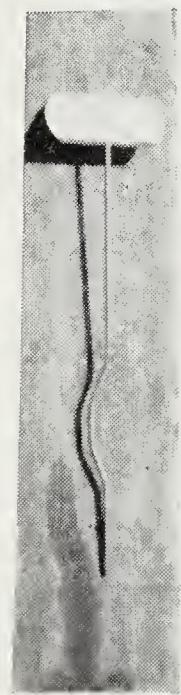
odd shaded lavender dwarf. The standards are lavender and nicely domed, but the falls are a blend of brownish purple with a distinct overlay of olive-green, wide and flaring. I do hope he introduces this one soon, as it is different from any other I saw all season; and I believe it would prove of good value as a breeder. Right next to these, Orpha Salsman's WAGON TRAIN was blooming, which is a cream and brown amoena.

Now that our first excitement had subsided, we made a quiet return to the other side of the garden, where most of the "spot pattern" dwarf irises were growing. Two of these, in particular, took our fancy, the first being Bennett's seedling M-173, with pale blue standards, closed, and a distinct deep blue spot pattern on pale blue falls. The other was a lustrous pale yellow with wide falls of sulphurous-yellow, having a green-gold-olive spot pattern and a pale yellow beard. These two were about 14 inches high with well-proportioned stems on nicely shaped plants.

Another little charmer in the bed next was a dwarf iris of a muted burgundy-red shade standing only about 8 inches high, but the striking feature of this iris was the deep maroon thumbprint spot at the tip of the burgundy beard. The flower has a lilting, flaring form with closed standards.

With all these little "pretties" abounding in Bennett Jones' seedling beds, one who sees them is left with the deepest desire to have them in his own iris beds.

With all these spot patterns, sulphurous olive-green and lime-colored thumbprints, and pleasing chocolate-lavender blends among those which we saw blooming that day and during the several visits as the blooming season progressed, there is no small wonder such lively competition and enthusiasm exists among those who are hybridizing the dwarf, median and intermediate bearded irises, as the color combinations are endless; and with the form and size of petals getting better each year, they surely have made their mark and a place for themselves in the iris world.



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MEDIAN COLOR CLASSIFICATION— AIS 1966 REVISION

HARRY B. KUESEL

The AIS adopted a standard color classification in 1949 which still is in use, with the addition of subsidiary symbols which have been revised and added to over the years. The 1966 revision:

<i>Color</i>	<i>Pattern</i>	<i>Subsidiary Symbols</i>
W White	1 Self	P Pale
V Violet or purple ¹	2 Plicata or fancy	L Light or lightly marked
B Blue	3 Bitone	F Full
G Green	4 Bicolor	D Dark
Y Yellow	5 Blend	DD Very dark
O Orange		C Cool ²
R Red		T Warm ²
N Black		H Heavily marked cm Conspicuous marking

¹It is common practice now, and adds to accuracy, to designate purple as red-violet; and some shows separate the violets and the purples into separate classes.

²Used particularly with white selfs, where a slight tint of blue or violet or blue-green will give a cool effect to a white self; or where a slight tint of yellow, orange, red or yellow-green will add a warm touch to a white self. These may be designated W1B, W1V, W1BG—or W1C; and W1Y, W1O, W1R, or W1YG—or W1T.

One of the characteristics that distinguishes many medians, particularly in the standard dwarf classification, is the spot pattern in the falls which comes from the species *I. pumila*. In the older classification the spot pattern in a deeper shade of the same color resulted in a bitone classification. For example, the Cook-Douglas Award winner, TINKERBELL, has blue standards and falls, but with a much deeper blue thumbprint on the falls. This originally was placed in the blue bitone class with the symbol B3. In the new classification, the added symbol “cm” to designate conspicuous color markings permits a more accurate identification. TINKERBELL now can be classed as a light blue self, with a conspicuous marking—symbol B1Lcm. This change also has moved many dwarf amoenas like SUNNY HEART, which has white standards and falls and a conspicuous bright yellow spot on the falls. The color class has been changed from bicolor to self, and the new color symbol is W1Ycm. As an aid to show committees we are listing below the new color symbols for median AIS award winners of recent years.

Standard Dwarf	Symbol	Description
Bearded		
BLACK CONTRAST	V1D	Dark purple self, white beard.
BLUE ACE	B1F	Violet-blue self; matching beard.
BLUEBERRY MUFFINS	Y5L	Light yellow-tan blend; blue beard.
BLUE DENIM	B1L	Light blue self.
BLUE SPARKS	B1Pcm	Pale blue self; deeper halo; yellow beard.
BRASSIE	Y1F	Full yellow self.
EASTER HOLIDAY	Y3L	Yellow bitone; purple beard.
GOLDEN FAIR	Y1F	Full yellow self.
GRACE NOTE	Y3L	Yellow bitone; purple beard.
GREEN SPOT	Y1PGem	Very pale yellow; green spot.
JOY BRINGER	W1Ycm	White self; chartreuse halo.
KNOTTY PINE	Y3D	Brown (dark yellow) bitone; blue beard.
LILLI-WHITE	W1W	White-white self.
LITTLE LANE	W1Ycm	Warm white self; barium yellow spot.
MARINKA	Y1Lcm	Light yellow self; chocolate base on standards; lavender beard.
MOONBRIGHT	Y3L	Light yellow bitone; bluish white beard.
ORANGE CAPER	Y1F	Deep orange-yellow self.
PAMELA ANN	Y3L	Light yellow bitone; yellow beard.
SCOT CREAM	Y3L	Ivory-white and cream-yellow bitone.
SHINE BOY	V1D	Violet-black self; purple beard.
SKY BABY	B1L	Light blue self; white beard.
VELVATINE	Y4RO	Variegata; yellow standards; mahogany falls; yellow edge; yellow beard.
ZING	Y5F	Antique gold blend; lavender beard.

Many standard dwarfs have beards which are in sharp contrast to the principal flower parts. For show purposes it may be desirable to further subdivide each class for beard color. Also, when a large number of selves with conspicuous markings are entered in a show class along with pure selves, it may be advisable to further subdivide the class to separate flowers in each of these two color variations.

Intermediate Bearded	Symbol	Description
ARCTIC BEACON	Y1L	Light canary yellow self.
ARCTIC FANCY	W2V	White plicata; violet edged; wisteria beard.
ARCTIC FLARE	B1P	Pale blue self.
ARCTIC KISS	W4VB	White and violet-blue amonena.
ARCTIC WINE	R1D	Deep wine-red self.
BARBI	Y1L	Light yellow self.
BLUE FRAGRANCE	B1P	Pale blue self.
BORDER CREAM	Y1P	Creamy yellow self.
CLOUD FLUFF	W1W	White-white self; yellow beard.
CUTIE	W1Bcm	White self; blue pattern.
DILLY DILLY	B1L	Light blue self; white beard.
ELFIN ERIN	G5D	Green blend.

ELFIN PRINCESS	W1W	White-white self.
ELFIN SMOKY	G3D	Green bitone.
FANCY CAPER	W2V	Fancy violet plicata.
KISS ME KATE	GW1Bcm	Greenish white; blue edge on falls.
LE SABRE	YG4V	Uranium green, dauphin's violet bicolor.
LILLIPINKPUT	YO1L	Golden apricot; tangerine beard.
LIME RIPPLES	Y1L	Light yellow self.
LITTLE ANGEL	W1W	White-white self.
MOONCHILD	V3	Violet bitone; deeper signal on falls.
SUGAR	Y1Pcm	Creamy white; yellow overlay on falls.

Border Bearded

	Symbol	Description
BAYADERE	O5D	Metallic brown (Dark orange blend.)
BORDER BELLE	Y4Wcm	Yellow and white bicolor.
BRONZE BANTAM	YO5	Light bronze self.
BROWN RINGS	OD4V	Brown and violet bicolor.
CANDY SWEET	O3P	Azalea pink bitone.
DEBBIE ANN	B1P	Pale blue-white; blue beard.
DEEP LAVENDER	V3	Violet bitone.
ELLEN Q.	Y4W	Reverse yellow amoena.
FRENCHI	VR3P	Orchid-rose-violet bitone; tangerine beard.
JUNGLE SHADOWS	RV5D	Red-violet blend.
LACE VALENTINE	O1P	Pale yellowish pink self.
LA NINA ROSA	O1P	Pink (pale orange) self.
LITTLE BOWKNOT	B1P	Pale blue; tangerine beard.
LITTLE GREMLIN	W2VD	Plicata; deep violet on white.
LITTLE REB	W2V	Plicata; violet on white.
LITTLE SIR ECHO	R1D	Dark red self.
MUSTARD CREAM	Y3	Yellow bitone.
ROBBY	V4	Rosy tan; rosy violet bicolor.
TIMMIE TOO	V1F	Deep violet self.
TULARE	Y1F	Full yellow self; tangerine beard.

Miniature Tall Bearded

	Symbol	Description
BLUE TRIMMINGS	V3PD	Blue-violet; deeper markings on falls.
BROWN CROWN	O4R	Brown and red bicolor.
KATHRYN WESTON	B1Lcm	Light blue self; gold haft.
PAINTED ROSE	Y4RV	Yellow standards; rosy pink falls.
PIXAKEET	W2B	Plicata; blue on white.

The above is a color classified list of the 1966 winners. Below listed are winners of the previous four years which have not been listed above.

**Standard Dwarf
Bearded**

	Symbol	Description
AQUA GREEN	B4Y	Standards' blue-grey; falls chartreuse-olive; deeper spot.
ANGEL'S LOVE	W1Ycm	Ivory-white self; light blue spot on falls.
ARRANGEMENT	O5Dcm	Brown blend; deeper spot; blue beard.
BARIA	Y1L	Light yellow self.
BABY SNOWFLAKE	W1B	Cool white self.
BLONDE DOLL	Y1P	Pale yellow self.
BRIGHT DELIGHT	W4V	Standards white; F lavender-blue.
BRONZE BABE	O5D	Golden bronze; deeper spot.
CENTERPIECE	Y4V	Chartreuse; purple-brown falls.
CIRCLETTE	W2V	Purple plicata.
DARK CAPER	V1D	Deep purple self; purple beard.
DARK FAIRY	V1D	Plum purple self; blue beard.
DAINTY DELIGHT	W1W	White-white self.
DEAR LOVE	B1P	Pale blue self.
DELICATE AIR	B1Pcm	Pale blue with pastel green spot; blue beard.
DERRING DO	V4R	Purplish blue standards; deep red falls; lavender beard.
DESSERT	W1Y	White self with yellow haft.
ELISA BEE	W1Bcm	White self; blue spot; white beard.
EYE SHADOW	RV1Lem	Light red-purple; deep red spot; blue beard.
FILEE	RV3cm	Rosy pink; deeper spot.
GOLD BUTTONS	Y1F	Golden yellow self.
GREEN METEOR	B4Y	Blue standards; greenish yellow falls; blue beard.
HONEYBUG	Y3L	Yellow bitone.
LEMON FLARE	Y1P	Pale yellow self.
LILA CLIL	V1L	Lilac self; lemon beard.
LILLI-BICOLOR	W4R	White standards; maroon falls; blue beard.
LILLI-PURPLE	V1	Purple self; yellow beard.
LITTLE BOBBETTE	B4R	Blue standards; red falls edged blue.
LITTLE IMP	B3	French-blue standards; blue-green falls.
LITTLE ROSY WINGS	R3	Red bitone; deeper falls; blue beard.
MOONBLAZE	YO5	Tan with blue blaze; grey-blue beard.
MOONSPINNER	Y4W	Lemon standards; warm white falls.
NYLON BLUE	B1L	Light blue self.
NYLON LOVELINESS	Y1Pcm	Pale yellow self; chartreuse spot.
NYLON ROSE	RV1D	Rosy purple self; purple beard.
NYLON RUFFLES	Y1P	Cream-yellow self.
ORANGE BLAZE	Y1Fcm	Full orange-yellow; deeper spot.
PAPER AND INK	W1Bcm	White self; blue spot.
PASTEL GEM	B4Y	Blue standards, flushed chartreuse; chartreuse falls; blue beard.
PLICKADEE	W2V	Violet plicata.
PLUM DANDY	V1D	Plum-purple self; bluish beard.

RED DANDY	R1D	Deep purplish red; violet beard.
RED ROCKETTE	RV1F	Red-violet self.
RICKSHAW	Y4R	Yellow standards; red falls.
ROYAL CONTRAST	V1D	Royal purple; white beard.
ROYAL THUMBPRINT	R1Dcm	Dark red with deeper spot.
RUFFLED IMP	W1Y	Ivory-white self.
SNOW ELF	W1Y	Warm white self.
SPRING FAIRY	Y3Lcm	Light yellow standards; butter yellow falls; deeper spot.
SPRING FERN	W1Gcm	White self; green spot; white beard.
STARLA	W1GYcm	White self; green-yellow spot.
SUNNY HEART	W1Ycm	White self; bright yellow thumbprint.
TOLITA	Y5P	Cream with blue flush; blue beard.
VELVET CAPER	RV1D	Very dark purple; purple beard.
WEE REGGIE	W2RV	Red-violet plicata.
WILMA V	W4GY	White standards; green-gold falls.

Intermediate Bearded

	Symbol	Description
ALL CLEAR	W1Ycm	White self; conspicuous gilt edge on falls.
ARABI TREASURE	V1D	Deep violet self.
ARCTIC BLUE	B1P	Sky blue self; yellow beard.
ARCTIC DREAM	W1Y	White self; yellow haft.
ARCTIC MYSTERY	Y4W	Light yellow standards; ivory white falls; yellow haft; blue beard.
ARCTIC ROSE	RV1L	Rosy mauve self; yellow beard.
ARCTIC RUFFLE	B1P	Pale blue self; light blue beard.
ARCTIC NIGHT	R1DD	Velvety rich red-black.
ASTRALITE	W1Y	Warm white self.
BACK TALK	Y3	Yellow standards; deeper falls; orange beard.
BLUE ASTERISK	B1Pcm	Pale blue; deeper spot.
BLUKEETA	B1	Blue self.
BROWNIE TROUPE	YO5	Tan blend; yellow-green overlay.
BUTTER BIT	Y1F	Yellow self.
CHIT CHAT	W2V	Purple plicata.
DREAM MAKER	Y1P	Pale yellow self.
DRUMMER BOY	VB1Lcm	Light blue; deeper spot.
EARLY CHEER	Y1F	Yellow self.
ELFIN ANTIQUE	Y5F	Tan-gold self.
ELFIN HALO	W1Ycm	White self; yellow spot.
ELFIN MYST	W1B	Cool white self.
ELFIN ROYALE	V3D	Purple standards; deeper falls.
FIRST LILAC	V1L	Lilac self.
FROSTY LEMONADE	Y3L	Light yellow standards; falls deeper.
GALAXY	B4W	Light blue standards; white falls; blue beard.
GYPSY FLAIR	YO3RD3	Brown standards; red-brown falls.
INDEED	Y4W	Yellow standards; white falls.
JAY KENNETH	RV1D	Red-violet self; blue beard.

LAKE ELATION	B1L	Light blue self.
LILLIGOLPUT	Y1F	Yellow self.
MELLITE	W1Y	Warm white self.
MAROON CAPER	RV1D	Dark red-violet self; blue beard.
PAGANITE	V1D	Purple self; blue beard.
PINK FANCY	O1P	Pale pink self; tangerine beard.
PINK PRIDE	O1P	Bright pink; yellow hafts; tangerine beard.
PINK REWARD	O1P	Peach-pink self; tangerine beard.
PROPER LEMON	Y1L	Lemon-yellow self.
SAUCI FLOSSIE	W1Vcm	White self; blue-purple spot.
SMALL RIPPLE	W1B	Cool white self.
SMALL WORLD	W1W	White-white self; lemon beard.
SPOT BALLET	Y1Fcm	Full yellow; brown spot on falls; orange beard.
SWEET ALLEGRO	O1P	Orange-pink self; tangerine beard.
VANILLA ICE	Y1P	Pale creamy yellow self.
VELVET GOLD	Y1F	Cadmium-yellow self.
WHITCHEE	W2V	White plicata marked blue-violet.

Border Bearded	Symbol	Description
ANOTHER GEM	V1L	Light lavender-pink self.
BITAGOLD	Y1F	Full yellow self.
BLUE MILLER	B1P	Pale blue; deep blue beard.
BONNIE LASSIE	YO5	Honey brown self.
BORDER FRILLS	Y4W	Yellow standards; white falls; edged yellow.
BORDER PINK	O1P	Pink self; tangerine beard.
CHOCOLETO	O5D	Brown self.
DOLL DRESS	Y1P	Pale yellow self.
EDGE OF NIGHT	V1DD	Very dark violet self.
FAIRY JEWELS	W1Ycm	White self edged gold on falls.
FAIRY FROST	W1W	White-white self.
FOREVER AMBER	O1P	Pink-apricot self; tangerine beard.
GLACIER BAY	W4B	White standards; blue-violet falls.
HIGH HOPES	Y1F	Full yellow self.
HOB NOB	W4V	White standards; purple falls.
LACY LU	V1P	Pale orchid; tangerine beard.
LA NINA ROSA	O1P	Pink self; tangerine beard.
LITTLE BROTHER	R1D	Red self, full to dark.
LITTLE DOLLY	R1P	Intense pink self; tangerine beard.
LITTLE DUDE	B1	Chicory-blue self.
LITTLE KIOWA	O5D	Red-brown self.
LITTLE SAMBO	V1DD	Black-violet self.
MARCY DEE	YO5V	Peach-apricot-orchid blend.
NATIVE DAUGHTER	O1P	Pink self.
PAGODA	O1P	Pink self.
PEBBLES	B3	Blue bitone; pebbled deeper in falls.
PINK PIXIE	O1P	Pink self.
PINATA	V4Y	Violet standards; yellow falls.

RADIANT GEM	O1P	Pink self.
TWILIGHT TIME	B1P	Pale blue self.
VIBRANT CHARM	YO1L	Light apricot-yellow self.

Miniature Tall Bearded	Symbol	Description
BUENITA	Y05	Yellow-apricot; lavender blaze.
FIRST TIME	Y2W	Yellow plicata; yellow standards; white falls stippled in yellow.
MOCKINGBIRD	W2V	White plicata edged purple.
QUIEN SABE	Y3cm	Yellow bitone; lighter falls with lavender blaze.
TOPSY TURVEY	Y4W	Yellow standards; white falls.

While the above classifications conforms to the basic 40 class color system, it will be noted that there still are many classes with no irises listed. Also several classes have letter suffixes to facilitate separation of a major class into subdivisions. Show committees are urged to use this classification as a basic guide, but to subdivide crowded classes whenever the large number of entries warrants. It is practically impossible to have a personal knowledge of the colors of each iris listed above, so where the iris was unknown to us, we relied on the basic registration information furnished by the hybridizer. Variations in soil conditions, climate or weather also can affect color, and show committees should not hesitate to move irises in similar colors into the same classes, regardless of the above listing. We urge users of this guide to advise us of any changes they recommend on the basis of such experience, so that future listings may be more accurate.

Varietal Comments

REGION 1—GRACE PROVOST

It's a cold rainy day and a perfect time to get out the iris slides and review the iris season. I was able to get to some gardens this year that had many of the median irises as well as tall bearded, and was amazed at the number of newer ones being introduced, and the lovely and unusual colors among them.

In the border class, JUNGLE SHADOWS was an unusual blend of blue, gray and brown, giving a gray-green and blue effect from a distance. It seems to be a good grower, breeder and show iris, which is unusual. BLUE MILLER has a deep blue beard on pale blue petals, and is well formed and substanced. DEBBIE ANN is a well formed lavender-white with a violet beard; LACE VALENTINE, a light, laced pink with thick substance, well proportioned; and ELLEN Q, very well branched reverse yellow amoena type.

In the Intermediate class, the most unusual color was BERRY PARFAIT, a raspberry-pink and tan blend, with gold edges and glitter, a good grower, which never has been formally introduced. LICHTELFE is a lovely flared gray-blue with bright yellow hafts, giving a light gray-green effect reminiscent of JUNGLE SHADOWS. GALAXY, light blue reverse amoena type with green-white falls and blue beard; TWILIGHT TIME, pale blue self with chartreuse hafts and blue-green beard; FROSTED CUPS, an immaculate white-white with white beard, and the best formed I have seen in the smalls, flared, wide and well domed; MAYAN TREASURE, a bright orange-yellow or gold, flared and of good substance; ARCTIC KISS, a different amoena with a deeper blue streak through the center of the falls; DARK EDEN, very dark red with lavender beard; ELFIN ROYALE, violet and purple, with a blue beard, velvet quality; and DRUMMER BOY, nice medium blue with a blue ray pattern on the falls, and lovely form.

In the standard dwarf bearded class, MOONBLAZE is a lovely ruffled tan and gray blend, with blue wash in the falls, and a blue beard; TOLITA, a fine cream with blue beard, standards flushed blue at the edges; BLUE IVORY, ivory with blue shadings, blue beard and styles, nice form; PAMELA ANN, beautifully formed yellow amoena with wide hafts; ORANGE CAPER, bright orange-yellow with orange beard, ruffled; LACE CAPER, a nice laced lemon-yellow, smooth and nice substance; JUST SO, unusual amocna type, dark chartreuse falls bordered white, standards creamy white, well formed.

REGION 2—HARRY B. KUESEL

Standard Dwarf Bearded

PIXIE PASTEL: A new one from Helen Stevens, about 11", with a nice branch. Pure white standards, and falls with a horizontal flare that display a green-gold halo around a white beard, with bright blue spot radiating from it. This is a real eye-catcher.

PAMELA ANN: My favorite yellow bitone; with ruffling and nice proportion.

FAIRY FROLIC: By Soper from England. A pleasing pale blue blend with a bright blue beard.

SPECKLED SPRITE: Lovely 11" flared, red toned violet on white plicata.

HOW NOW: Unusual white with a heavy turquoise spot on the falls.

SNIPPET: Fine glowing red sib to BLUEBERRY MUFFINS, with the same flaring form.

EMMA FRANCES: From SNOW FLURRY; shows its heritage in miniature form; a red-violet self; 14" tall.

TIFFY: Yellow edged plicata with nice branching and the perfect name.

SUNNY HEART: Extra special white with a heavy yellow thumbprint on the falls. Good grower, too.

SHINE BOY: A lovely very dark purple self with that silky sheen.

Intermediate Bearded

ARCTIC KISS: A WHOLE CLOTH in miniature, 18" tall, with pleasant form.

ARCTIC MYSTERY: Pale yellow with a fine contrasting blue-violet beard; really stands out. 18".

DOLL TYPE: A fine violet stippled, white ground plicata, with purple styles and blue tipped beard.

DILLY DILLY: A flaring, crisp, light blue, even to beard. 20", and fragrant, too.

ELFIN ANTIQUE: Fine, semiflaring, antique gold self, with a tiny white blaze beneath the orange beard. About 17".

LITTLE WHIRLYBIRD: A very pleasing ice-white self with fine *aphylla* type branching and excellent deep green foliage.

BARBI: A ruffled, light yellow that has the best foliage year around of any iris I grow. Flowers are a little bunched at top, but a clump is quite a pleasing sight.

Border Bearded

BROWN FLARE: Most unusual orange-tan-brown bitone, with good form and substance.

BLUE MILLER: Very fine silvery blue; with a deep blue-purple beard.

DEBBIE ANN: A fine cool white with a blue tipped beard. The whole flower is in perfect proportion.

JUNGLE SHADOWS: There is something about this dusky brown-blue-gray blend that calls you back for a second look. Well named.

LITTLE LYNN: A fine pink with a tangerine beard and a white blaze at the haft. 19". Should be better known.

ELLEN Q: Nice tailored, reverse yellow amoena, with lots of substance.

Miniature Tall Bearded

BROWN CROWN: A well-named brown variegata, with a nice thin stem. 12". Flowers dainty and crisp.

DAINTY DANCER: Bright yellow standards and flaring red-violet falls, and a nicely branched stalk. 20".

QUIEN SABE: An improvement on NAMBE; with orange-yellow standards and smooth orchid falls. 18".

REGION 2—WILLIAM H. PECK

Intermediates

SUGAR: A delightful ivory to pale yellow. The flowers have fine form, with edges of falls slightly curled up, a feature I like. The stalks have two buds in the terminal and one each on three branches—five in all. To my mind intermediates should have the branched stalks like talls, and not inherit the unbranched form of SDB, which is the case with some that have been introduced.

BARBI: A yellow with beautiful flowers, each better in form than LIME RIPPLES. Most attractive when only the terminal is out. The next two flowers sometimes bloom together without sufficient separation. I like the shape of the falls better than those of LIME RIPPLES, which are slightly too long for me, but LIME RIPPLES has a fine contrasting beard.

FIRST LILAC: This is still in a class by itself and a must for any IB garden. It has an interesting flared form. It is tailored, but I feel not all flowers should be ruffled, witness my border iris, ELLEN Q. BILLET DOUX is one having similar form that I still grow and like.

CUTIE: Another with tailored flaring form. White with blue veining like BLUE ASTERISK.

ARCTIC FLARE: Another with nicely formed flowers and good branching. Catalog says icy-blue-white, but often it looks white-white. A good grower.

DARK EDEN: I like it for its velvety texture and its unusual-for-IB red-black color.

LITTLE ANGEL: One for those favoring small flowers. A flaring white. Seven buds.

REGION 2—MARY PAT ENGEL

Right now in the fall I've just had the pleasure of seeing Percy Brown's AUGUST WAVES, a 20-inch neglecta early fall bloomer. It's lovely in the spring and a double bonus again in the early fall. His BARRE BEAUTY is a sure rebloomer, and the delicate blue is lovely; but it doesn't compare with AUGUST WAVES.

BLUE ASTERISK is another favorite because like AUGUST WAVES it blooms over a long period of time in the spring. Even in my postage-stamp yard I have several clumps of this fine intermediate in pale blue with deeper blue lines.

When I visited Albert Ellis' display gardens in Canada, I saw a huge clump of BRASSIE planted among others of similar color. For the first time I really realized it was just that "brassie" and lovely to boot.

This spring when I visited Lowell Harder's gardens in Churchville, New York, out of that whole garden, at peak bloom, the one lone iris that I just had to have was the border iris LITTLE DOLLY, pinkest of pinks.

The thing that pleases me about the dwarfs, intermediates and border bearded is that the people who say they don't like them and want only tall ones, are generally the people who just have not had an opportunity to see the advancements which have been made in this type of iris.

Our whole Niagara Southwestern Area made a tour to Canada this year to see Albert Ellis' median display gardens; and Judge Earl Daum, who had previously said these irises were for the birds, became so enthusiastic about several of them that he jotted down names so they could be added to his ESIS display garden. Then Esther Blackley, who has had no love for small ones, saw Percy Brown's luscious blue SEPTEMBER PASTEL and his jaunty yellow self with white area on falls, FALL PRIMROSE, in bloom in my garden in October; and despite their relative shortness is acquiring them for her gardens for next year.

I had a man widen every bed in the yard the width of a rototiller, just 12 inches, but you'd be amazed at the number of tiny ones that I could get in the extra space, as well as have space for pansies, etc., in the front of the iris in off season. We small-time operators have to watch the inches for peak satisfaction.

REGION 2—MRS. H. L. EDWARDS

CRADLE CAPERS: Very perky little variegata pattern. The spot is a real black-brown.

BLACK BABY: Very nice little dark one.

JOY BRINGER: Rather like GREEN SPOT, but greener; shapely and the flowers are nicely above the foliage.

BROWN-EYED KATIE: I like! Large brown eyes, too.

GOLDEN FAIR: A nice soft yellow.

ASTRALITE: Good ruffly white.

FIRST LILAC: Lovely light lavender.

ARCTIC FLARE: Refreshing clear blue-white.

And at the convention I fell in love with DEBBIE ANN and TIMMIE Too. As far as I was concerned, they were the star attraction. I even left the kittens in Knocke's barn to go back for another look.

REGION 3—CHARLOTTE GANTZ

The '65 drought and the very late freeze (May 13 here) kept new bloom in my garden at a minimum. Of the very few *new* performers, I liked SUNNY HEART, a flaring cream with a big gold spot, very much; also EYE SHADOW (medium reddish purple with deeper spot) and SPRING FERN (white with green halo). FOREST GLADE, of which I'd heard many comments from New Zealand and Australia, is a very striking flower with lemon standards and olive-reddish falls edged lemon. It achieved more height here than it had "down under," but still was not in proportion, a failing of which Mrs. Stevens is well aware. It's a pity because the colors are lovely.

An older intermediate, but not too well known here, is the British CHILTERN GOLD. It is an excellent warm yellow, and even in such good company as LIME RIPPLES, BACK TALK, and OHIO DEB, it held its own with ease.

New borders which pleased me were ELLEN Q, a pale yellow and cream, and GLACIER BAY in the WHOLE CLOTH pattern. Both have good proportions; and a weakness in this respect (flowers too big for height) is noticeable, alas, among our well-known and handsome BBs. Last spring's heavy rainfall did a great deal to exaggerate this fault, as well as to take many out of their class.

DESERT QUAIL and PAINTED ROSE were good additions to my small group of table irises.

Elsewhere I saw and liked two very fine blends, MARINKA and MOON-BLAZE, and three newer plicatas, TIFFY, ZIP and SPECKLED SPRITE. For perfection of form, I liked PAMELA ANN, a warm cream; and I thought LITTLE WHIRLYBIRD, a white with faint olive-green veining, was outstanding.

Bee Warburton kept the registration desk at the convention in Newark bountifully supplied with SDBs and IBs from her garden. Those that particularly caught my eye were EMMA FRANCES, a lovely, ruffled red-violet; and SANDY CAPER, a plicata with pale rosy tan standards and white falls, with yellowish tan markings.

REGION 3—HELEN STEVENS

Having been unable to get to other gardens this past season, I can only comment on a few varieties here in my own garden. One trio of varieties from Wilma Greenlee's hand were especially enjoyed. These were the intermediates GALAXY, WHITCHEE and VANILLA ICE. WHITCHEE is a lovely white and blue plicata of excellent shape, with bloom held well above the foliage. In fact, all three of these varieties exhibit this virtue. Now that we have almost the entire range of iris colors in the median group, we would do well to spend more time on the breeding of adequate flower stem height into this group.

These three Greenlee varieties are excellent planted together. GALAXY is a reverse bicolor of lavender-blue and blue-white. The blue beard adds to the quiet harmonious effect. In this garden there is a faint pearly infusion of gold and blue in the falls, which also have a palest blue midrib. In all, a lovely thing. VANILLA ICE is a treasure, a cool, serene beauty in a creamy tint. This, also, in my garden, has a faint blue midrib on the falls, and this enhances its cool effect.

Of my own introductions, PIXIE PASTEL, SDB '66, is perhaps my favorite. The green-gold and fresh blue lines on the falls are an added attraction to the snow white of the petals.

REGION 4—RENA KIZZIAR

Standard Dwarf Bearded

AQUA GREEN: A muted blend of blue, gray and olive, with spot pattern of green, whose many flowers furnish a quiet backdrop for more raucous colors.

BRIGHT BEACON: I remember it as one of the best in its class, a rose-red with fall spot of lemon.

DESSERT: A charmer in cream-white, with glowing hafts of gold.

SPRING FERN: A lovely, flaring white with large green halo.

ZING: Bright antique gold with lavender beard.

Intermediate Bearded

BARBI: Beautifully formed, ruffled yellow.

DANCING ZENITH: Although this will not make its debut here until 1967, its outstanding beauty deserves comment. An intense blue with matching beard, excellent form, substance and proportion.

ELFIN PRINCESS: Flaring, pristine white; perfect form.

LILLIPINKPUT: A carpet of apricot bloom; cannot be beat performance-wise; excellent bloom and wealth of increase.

VANILLA ICE: Aptly named; a froth of cream. Another great increaser.

Miniature Tall Bearded

DAINTY DANCER: Yellow standards, flaring orchid falls; a modern version of the older NAMBE.

KALEIDOSCOPE: Yellow standards; broken pattern on red falls; colors which repeated charmingly the red and yellow of the sedum growing at its base.

Border Bearded

FAIRY JEWELS: Gilt, lace-edged white with complementary gold haft and beard.

RADIANT GEM: Lace-frilled pink further brightened with a gold haft and red beard.

TULARE: Breathhtakingly beautiful bright yellow; the only iris to have the honor of *four* locations in a small garden where space is at a premium!

REGION 6—EARL R. ROBERTS

BLUE ACE: Clean bright violet-blue with self beard; fine form.

BLUE SPARKS: Bright blue with deeper blue halo on the falls; yellow tipped beard. One of the finest.

BRIGHT BEACON: Standards a pinkish lavender; falls maroon veined deeper, with a light lavender edge; blue beard; flared form.

CIRCLETTE: Two buds per stem. Standards wide and domed; white with bright purple edging. Falls semiflared; white stitched light purple, with some veins in deep purple. Beard light blue with deeper blue dots at tips.

GRACE NOTE: Light yellow standards; falls more greenish yellow; outstanding orchid-blue beards.

ELFIN GOLDTONE: A golden olive-tan self with light orange beard; cupped standards; flatly flared falls. HC 1966. QUECHEE × Cook 1155: PROGENITOR × blue *pumila*. (It should be noted that all of the "ELFIN" series are derived from talls crossed with Paul Cook lines from PROGENITOR × blue *pumila*. They tend to have smaller flowers and the double shot of dwarfs brings them into bloom a few days earlier than the standard intermediates.)

JUST SO: Standards tightly closed, white flushed cream, with deeper ribs;

falls flat with a lilt at the tips, white with greenish gold patterns, white beard.

LENNA M: Best pink in this pink lilliput line. Domed, closed standards in medium pink; falls semiflared, medium pink with deeper beige-pink spot, edged wide pink borders. Beard white tipped red. Tailored form. Very fertile both ways.

LITTLE GRACKLE: An intense purple, slightly darker flush at tip of purple beard. Quite showy.

PLATINUM GOLD: An unusually bright color combination of canary yellow and white; not quite an amoena, since the canary spot is only a half-spot on the snowy white falls, which again are edged in canary yellow. HC 1966.

RICKSHAW: Nice contrast of clean, light yellow standards and falls with a deep maroon-brown spot, with haloed edges and a one-fourth inch edging of yellow. Yellow beard.

REGION 8—MATTIE REINHARDT

The medians I saw in 1966 and thought were lovely are, by color:

In the whites, I still love CLOUD FLUFF and CUTIE, with its turquoise-blue penciling on the falls and its jaunty flare. Beautiful MELLITE makes an outstanding clump, with its ruffled and flaring form; and I can't leave out snowy white ELFIN PRINCESS, which looks so pure with the white beard.

In the blues, I have found a number of outstanding varieties. So far I have seen nothing clearer blue or with more pleasing form than DEAR LOVE and SKY BABY. For something more unusual in blue, there is the light blue DRUMMER BOY, with deeper blue penciling on the falls. CUTIE and DRUMMER BOY make an unusual pair.

In yellow, I have seen nothing to surpass GOLDEN FAIR; an outstanding clump of golden yellow is a show by itself, admired by everyone who sees it. It has beautiful form, with broad, flaring falls. One cannot ignore ZING, with a lavender-blue beard on an antique-gold flower. BLUEBERRY MUFFINS is another unusual beauty, with a brilliant violet beard on a tan-buff flower.

One that I cannot overlook is PEBBLES, a BB reverse amoena; light blue standards, flushed deeper blue; horizontally flared falls of white, with a pebbly texture.

KISS ME KATE is one that is different and lovely, and must be mentioned. LEMON FLURRY and LIME RIPPLES and LITTLE LANE, each different, are lovely, and not to be overlooked in any planting.

REGION 8—MAY BELLE WRIGHT

Border Irises

BLACK FOREST: Good proportion and still one of the best.

CUTE TOMATO: Flower too large for height and poor form; intriguing coloring of fine gold edging on white, with tangerine beard.

FRENCHI: Excellent proportions; nice if gaudy rose and magenta coloring.

JUNGLE SHADOWS: Odd but beautiful blend in good proportion.

LA NINA ROSA: Nice, but the flower is a little too large for my idea of the perfect BB.

LITTLE DOLLY: Fine color, pinkest of the pinks; but flower much too large and dogeared.

LITTLE DUDE: Lovely pale blue of good color, substance and form.

LITTLE GEM: Good proportions, but the pink is only so-so for color.

LITTLE REB: Good proportions; dark plicata.

MISS RUFFLES: Good proportion and substance; pleasing form; lovely blue bitone.

MOON TALK: Nice short tall bearded, with flower much too large for BB. Good pink.

NATIVE DAUGHTER: A good pink with nice size, color, substance and proportion.

SANDY JEAN: A yellow with white blaze which usually grows much smaller than it did this year; good color and very vigorous; makes a colorful clump.

TULARE: Very good color of golden yellow with bright peachy beard; fine form and proportion.

YELLOW DRESDEN: Beautiful coloring; wide and with good substance; but 34".

REGION 9—WILMA GREENLEE

List of May 1. Conditions: extra cold and cloudy.

BLUE ACE: Blue-violet self; closed standards and falls. I loved deep blues after several years of dreaming pinks, red, plicatas, etc.

ROYAL THUMBPRINT: Nice; domed standards; rose; red spot on falls.

ELISA BEE: White with blue spot; quite neat.

BRIGHT BEACON: Deep orchid; red-brown edged petals; blue beard.

BRIGHT DELIGHT: White and blue amoena; open standards; flared falls.

GRACE NOTE: Bright yellow bicolor with bright orchid beard; domed standards and flared falls. Medium narrow falls, but wide enough for a neat appearance. Clean and lovely.

Notes on May 8: Cool and cloudy; froze the next night.

RED DANDY: Is just that; wide, pleated and horizontal falls; and gay. Smaller size scale than most.

SKY BABY: Very fine light blue.

PLATINUM GOLD: New pattern to me; light yellow and sharp white standards; styles yellow; sharpest white falls; bright yellow zone edged lighter. Similar in form to GRACE NOTE. Good and neat, but not wide; stems of both are long and right for this kind of form.

GLEAMING GOLD: Very good garden yellow; floriferous; cupped standards; horizontal falls; good substance; petals had a ruffled edge.

LAUGHTER: Beautiful yellow with white and blue checkerboard beard and a check of the bright blue. Striking and very brilliant.

SUDDEN MUSIC: Red-violet; blue beard; glossy taffeta surface; wide and with a nice shape.

REGION 11—ROBERT L. JENSEN

BABY SNOWFLAKE: A pleasing little white with some slight haft lines which add distinction; some ruffling. It grows very well.

BLUEBERRY MUFFINS: An unusual and intriguing color combination. I can think of nothing like it among the tall bearded irises. That showy violet beard is the "most." It is very rapid of increase and extremely floriferous.

BLUCEETA: An excellent intermediate; rapidly makes a fine clump. An unusually clear true blue iris for so early in the season.

BUTTER BIT: A fine early yellow; quite wide, and full flowers. This also grows and increases well, and is very floriferous.

CARNIVAL GLASS: A small and low growing iris of a very rich shade of brown. A beautiful addition to the border class. Foliage was in good proportion to the stalks in the originator's garden.

DRUMMER BOY: A sister to CUTIE; I like it better. Light blue with darker blue markings; a pleasing color combination and a quite different one. The flowers are fairly large, but not out of proportion.

GHOST TOWN: A lovely little dark iris; deep violet with a blackish sheen. Excellent flower form, and grows and blooms well.

LA NINA ROSA: Would you like a small pink iris? This is a lovely little border iris in clear pink, with a red beard.

LIME RIPPLES: This is becoming one of the "old reliables," and reliable it certainly is. My clump has been undisturbed through four seasons, and has never failed to bloom heavily. A fine, clean, ruffled light yellow of beautiful form.

MARINKA: It is hard to resist this little charmer; yellow with a chocolate mark at the haft, and a lavender beard. Growth and increase are quite adequate.



Left to right: JEAN WITT, ALTA BROWN, BENNETT JONES, ROBERT SCHREINER.
(Photo: courtesy Foster Allen.)

REGION 13—RICHARD S. ROSENFELS

VELVET CAPER: Very nice SDB; 11" in 1966. Rich, full, dark violet self with matching beard. Standards a bit open, a little lighter than falls.

GOLDEN FAIR: Excellent full yellow SDB; wide hafts; fine form. No notes; have just gotten accustomed to having this standout around.

MAROON CAPER: No notes, but remember this as a fine 1B of excellent color clarity, form and branching. Red-purple.

ELFIN ROYALE: An IB which, however, was 15" when it bloomed in Richland. Falls flaring, very deep velvety purple; standards a little lighter and closed. Fine form and bearing.

ELFIN PRINCESS: Another excellent median. In 1966 it appeared as a splendid small white, but gave away its IB makeup by blooming May 1. It was only 13", a white self with white beard; flaring falls, nicely domed and closed standards; a lot of just plain class.

BLACK FOREST: Some of the above mentioned have been around quite a while. This one came out in 1945. On May 7, in Richland, it was a beauty, 26", a fine dark violet bitone BB, good form, falls flaring, deep velvety purple, almost black from the blue side.

REGION 14—MRS. R. NELSON NICHOLSON

Standard Dwarf Bearded

LITTLE LANE: Thick white petals and golden sunbursts on shoulders; looking like a little brother to FAIR AND WARM. Good height. Was my favorite new SDB last season, as was GRACE NOTE in 1965. The latter was just as lovely the second time around, with unfading yellow petals and lavender-blue beards.

CIRCLETTE: The sharpest violet contrast and cleanest white ground of any SDB plicata. Read sometime ago that Goett considered this his best, and it still is. Thick substance made it long lasting in this valley heat.

The quiet charm of MOONBRIGHT grows on me. Good form; clear, clean creamy lemon; a little lady. Maybe she should grow beside that impecable lad, SHINE BOY.

Of course, BLUEBERRY MUFFINS already is a classic in the yellow with violet beard class (if one can elevate such a perky little flower to such a formal status).

“I like” notes for VELVET TOUCH, purple-red with thick bluish beard; for JUST SO, good height herc, smooth creamy green color, but falls a little narrow; VELVET CAPER, dark, unfading red-violet, velvety petals, and thick purple beards; GOLD BUTTONS, fine substance, bright unfading yellow, flaring form; could be higher.

Intermediate Bearded

LE SABRE: My new excitement in IBs because of its good substance, medium sized flowers of odd but clear greenish, violet and brown coloring. This did not get anywhere near the 27" listed for its height by the introducer, and I hope it never does. I like the IBs nearer the 20 or 21 inches, and with dainty size blossoms, for better height to size relationship.

BLUEKEETA: Still “the” IB.

DREAM MAKER: Tantalizes with its clean creamy yellow, flaring flower, but doesn’t attain height here. The past season it did not get over 12". I’ll grow it anyway, not as a judge, but as a hobbyist, and pretend it’s a SDB.

SMALL RIPPLE: Bloomed a beautifully ruffled cool white with wonderful form; the arched falls have a lilting curled tip. Three blossoms at one time, and flower size proportionate for the class.

CHIT CHAT: Was again very good, with sharp violet contrast on white ground. Flaring form, good substance and correct height for its class.

ELFIN ERIN: Produced a wonderfully thick orange beard on greenish yellow, well formed flowers; but the usual brown “flush” on the falls became “splotches” of pigment this year. Well, I am growing “him,” anyhow, even if “he” is an “unstable” character!

SPOT BALLET: Fine substance; flower with horizontal falls and open but perky standards; a bright variegata with orange beard; conforms in height

and flower size to the class. I have liked this very much over a three-year period.

GADGET: A well proportioned red-purple that does not sun burn.

INDEED: Lemon-yellow and white reverse amoena; beautifully proportioned flower and plant with many buds.

I find the remark, "I like BUTTER BIT" time and again in my notes made about various garden visits. Buttercup-yellow.

BORDER QUEEN: Seemed a good "part aril" example. Good substance; broad falls; a chartreuse flush and a violet signal on a grayed blue ground.

Miniature Tall Bearded

SHRINKING VIOLET: An absolute self with no haft markings; has flaring falls; correct size blossoms on thin but strong stems. A much needed delight in this class.

Border Bearded

This was "the" year for JUNGLE SHADOWS in this area. It consistently took the awards in its class at the flower shows. Its subtle, somber coloring was very clean, the stalks floriferous, and its garden performance was so healthy that it had my vote for the Knowlton Medal.

GLACIER BAY: Provided strong stalked specimens, with three of its amoena flowers open at once. CRYSTAL BAY was even more of a show stopper, with sharper color contrast.

ROBBY: A pleasing violet blend, with open but firm standards, and a smaller flower than most BBs.

WIZARD: Good branching; small greenish yellow flowers with horizontal falls; overall plant proportion seemed "sealed down" for a BB (the last word we want those initials to stand for are "big and bold.")

MISS RUFFLES: A fine light blue seen in Keith Keppel's garden. Also saw PEEK-A-BOO there; a sharp violet plieata BB that I understand is from TEA APRON × CEDARCREST.

LA NINA ROSA: Red bearded pink; again an example of the smaller flowered, not too tall BB that is desirable.

FRENCHI: Again proved itself the classic for correct proportion in this class.

Unfinished business from '66: I want to see a bloom of SING AGAIN, a yellow bitone IB from SING ALONG.

REGION 15—MRS. K. B. (POLLY) ANDERSON

The Median Display Garden at the State and County Arboretum in Arcadia, California, is showing color every month of the year. Most of the medians have adapted to Southern California conditions, and many are growing rampantly; but some are particularly nice.

ARRANGEMENT: Nicely proportioned yellow and brown, with blue beard.

BLUE DENIM: Last year small, dainty textured blue with good proportions, but grew out of bounds this year. Think it should be transplanted each year to remain small.

BRASSIE: Small and exceedingly bright. Prolific.

DELICATE AIR: Prolific plant; lovely blue and yellow; small flowers, a bit too far down in the foliage.

ELISA BEE: Good small sized amoena.

HOW NOW: Excellent grower here; good proportions; floriferous; a very clean white with a blue spot.

GREEN SPOT: Early; small and dainty white with green spot; fades quickly on hot days.

LILLI-BITONE: A good blue bitone that holds a good median size.

MAROON CAPER: Good border size, deep violet.

ORANGE BLAZE: Short, very brilliant variegata. When first opens appears to be wearing a green apron; then becomes brownish.

PLUM DANDY: Excellent; bright plum color with blue beard; short.

QUIEN SABE: An excellent contrasty thing here; well proportioned.

RUFFLED IMP: Medium sized, creamy white.

TITMOUSE: Same tan and lavender color as **SANDYSON**, but smaller and better proportioned.

TWO BITS: Intermediate in size; a vibrant blend of pearl and flesh.

ZIP: A neat, small plicata, white and purple.

REGION 17—Z. G. BENSON

VELVET TOUCH, SDB: Red-purple self with orange-tipped beard. Continuous bloomer for at least a month, sending up bloomstalks one after another. 16 inches here and in good proportion overall. 4 buds.

MOONBRIGHT, SDB: Cream standards and light yellow falls with white border; beard orange-tipped light blue. Vigorous growth. 10"; low branching with 3 buds. Flaring and heavy substance. Very nice.

ARABI TREASURE, IB: 18". Vigorous grower, with low branching and 5 buds. Blue-purple self with brown-tipped purple beard. An excellent performer, well in proportion, and bloomed over a long period.

GIRLISH FIGURE, BB: 17". 3 buds. Plant slow to establish, but worth waiting for. Lovely flowers with pinkish cream standards and light pink falls; beard tangerine tipped light blue; unusual color at haft. Standards closed and falls ruffled. Flower too large.

ROBBY, BB: Rose-pink standards and lighter falls; tangerine beard; a very ruffled flower. 20". Wider than I like but has "IT". Of moderate vigor; flaring form and heavy substance.

EBONY EMBERS, IB: Black self with an orange beard; flaring to semi-flaring; heavy substance. 17". 3 buds.

MISS RUFFLES, BB: Light blue self, with yellow beard with lavender influence; flaring form and heavy substance. Low branching, with 5 buds. 20".

BACK TALK, IB: Real nice yellow, with orange beard. Heavy substance. Dainty stalk. 22". 4 buds.

REGION 18—MILDRED BRIZENDINE

There is not too much to report, for the freezes finished off my irises. **ORANGE CAPER** was the best thing in my garden. It was terrific and can be depended on every year for lots of bloom, regardless of weather. Brilliant smooth color, good form, lots of bloom, it stood out like a beacon light.

SCOT CREAM is good, has fine form, and is certainly a color break and a fine addition in any garden. I don't care for its striations, but it has personality.

Of my own which were among the few to bloom, **SHINE BOY** really out-did itself in Wichita, and was superb here. So was **BLACK CONTRAST**, so smooth and dark blue with such a white beard, which made it striking. Everyone has written that **JOY BRINGER** was a show-off. It's one that can be depended on to bloom, regardless.

NANCY MARIA was a gorgeous thing. They tell me it is MDB, but for me it definitely was SDB, and a dandy. DEEP LAVENDER definitely is SDB; it blooms and looks like an SDB, and in SDB season. It is very pretty, and I like it.

SALEETA should be a must for everyone. There is nothing like it in the SDB realm. That black signal on the yellow base is very striking. WEE SCOT bloomed very well also, and is just as outstanding.

MAROON CAPER bloomed and is a beauty, but due to the weather was on a short stem. LIME RIPPLES always is a riot of color, and very dependable.

REGION 19—JOSEPH A. GATTY

BLUE TWIST: One to look forward to having. A very ruffled, flaring blue-white, ideally proportioned. The purists will say that its standards do twist a bit, but that they do adds to the personality of this iris.

CRYSTAL BAY: The daintiest of the blue amoena borders; neatly ruffled flowers held on slender and well branched stalks.

DEMI: A starchy and petite white-white tinted green at the hafts. An appealing addition to the white SDBs, of rounded flower form, in contrast to the flared whites which today dominate this classification.

ELLEN Q: In a day and age when iris ruffles are the order, it's nice to come on a border iris that dares to be tailored of form, direct and effective in its garden purpose—that of performing and putting forth an abundance of flowers. Reverse amoena pattern. A well proportioned border; one, as do most, that may tend to exceed the 28 inches in height of its classification.

MOONBRIGHT: There are many yellow SDBs today, but few have the clarity of color of this one—soft, appealing, yet not wan in its garden effect. The form is that of closed standards and flaring falls; the petal structure that of suede.

VELVET TOUCH: A perky, flaring red-violet SDB of medium flower size, which by its ability to lavish its rich bit of color to the spring garden should not be overlooked. A perfect garden companion for the five above.

REGION 22—JOHN W. HUMPHREY

Let it be said at the outset that medians are not the most common class of irises we see in Region 22, but they are beginning to make progress, and in almost every garden visited, we did see at least a few. Mrs. Shelton's garden in Del City actually has only a few TBs, the most of her garden being from MDBs up.

Standard Dwarf Bearded

Among the SDBs, we surely cannot forget BRIA, as it seems to have more of a jaunty, flaring form than almost any other, and good color. It rates with me right up among the new ones seen.

BLUEBERRY MUFFINS looked very good in tan and with a gold-violet beard.

BLUE DENIM was perhaps the best of the blues seen. It was consistently good.

BRASSIE has never been seen when it was other than excellent.

One that we saw this year that we liked very much is BRONZE BABE, notable for its vigorous growth and excellent depth of copper-bronze color. GOLD BUTTONS we love, but it tends to grow out of the SDB class here. LEMON FLARE would have to be similarly described. LILLI-RICHTONE, LILLI-VAR, LILLIE-WHITE, LITTLE ANGEL and LITTLE SHADOW all were performing

Old Brook Gardens

**announces the introduction of a new Siberian iris
from Professor William G. McGarvey**

A DUAL PURPOSE SIBERIAN

DEWFUL (McGarvey '67) 40". This plant has medium blue flowers with broad falls that form a compact shallow cup which does in fact hold dew. The standards form part of the wall of the cup and are of the same color as the falls. The style arms are a very light blue which gives the flower a brightness that adds much to its garden presence. The falls carry a very attractive haft pattern which adds to the effect produced by the style arms. This plant makes a fine garden clump which because of its height and large flowers will add to the back of a mixed border. However, the real reason for introducing this particular plant is that it has proved to be an excellent breeder. Dewful is a sister seedling to Ego and is #63-4-4 (White Swirl X McG Med-B-Lt-b-sty). Since it is a more conventional plant than the previous introductions from Professor McGarvey the introductory price is

NET \$20.00

PREVIOUS McGARVEY INTRODUCTIONS

The two Siberians listed below and some other seedlings from the McGarvey garden may be seen among the guests at the 1968 and 1969 AIS Conventions. Both have excited those who have seen them at Presby.

EGO (McGarvey '66) 32". This Siberian iris has very compact, deeply ruffled, flaring blue flowers. The falls are highlighted by an attractive white blaze and haft pattern. Produces a fine clump and has bloomed consistently since 1962. This plant and the one described below are suitable for the middle or foreground of the mixed border.
Sdlg. 63-4-6: (White Swirl X McG Med-B-Lt-b-sty). **NET \$35.00**

SUPER EGO (McGarvey '66) 30". This Siberian has flowers of ruffled open flaring form. The standards are light blue, approaching white in color. The large rounded falls are dark blue at the center shading toward white at the edges. This is a bright and unusual flower. The plant has bloomed consistently since 1962. Sdlg. 63-2-2: (White Swirl x McG Lg-B). **NET \$35.00**

FALL FAVOR (McGarvey '66) 36" E & Re. This tall bearded clear yellow rebloomer blooms early in the regular TB season and again in September. Fall Favor is one of the New York State Fair Irises which means that it was developed for exhibition in the AIS Region 2 booth at the annual State Fair held in Syracuse, N.Y. during the week before Labor Day. This plant is a cold climate rebloomer which has rebloomed consistently in Oswego, N.Y. since 1960. The standards are ruffled clear yellow, and the falls are semi-flaring in the same color as the standards with a small white blaze in the center which makes it distinctive. Sdlg. 62 Y 6 : (55-Y-6 X Fall Primrose). **NET \$20.00**
Send for free catalog, (no color) with other bearded iris introductions —dwarf, median, tall bearded—over 500 varieties.

HARRY B. KUESEL

19 MARY LANE

GREENVALE, N.Y. 11548

well, although the last three varieties seem to like it here, and grow out of their class. SHINE BOY and ZINC always have given a good accounting, and I think their color is exceptional. I suppose that of all the SDBs we saw this year, we liked MARINKA the best; the green-gold color seems to please everyone. But the new introduction, VELVET TOUCH, a red-violet, seems to be the more vigorous of the two, and is a lovely little iris.

Intermediate Bearded

BUTTERBIT was doing well. CUTIE, DRUMMER BOY and TAMINO all grow very well in this section of the country. We like LILLIPINKPUT, although it has little pink in it here. KISS ME KATE is a reluctant grower for us, but we wouldn't be without it. LITTLE COTTAGE, LIME RIPPLES, SMALL RIPPLE and SUGAR are grown widely, and are much liked. One of our favorites of the IBs, except for color, is MOONCHILD, because of its branching.

Border Bearded

Some of the borders stretch up into the TB class for us, and we do see more of these here than those of the smaller classes. BAYADERE has proved to be an excellent laced brown. BLUE MILLER has made its appearance in many gardens and on the show bench, and has been an immediate hit. The ones drawing the most plaudits, other than the two above, were FAIRY JEWELS, LITTLE GREMLIN, LITTLE SIR ECHO, JUNGLE SHADOWS, and SMALL TALK, (now registered as TB) with TULARE drawing the most raves of all.

REGION 23—MRS. JAMES R. YOCUM

Standard Dwarf Bearded

Lilliputs are exceptionally satisfactory growers. The tried and true grown in median gardens elsewhere also are satisfactory here. BLUE SPARKS is one of the fastest increasers, as well as being very prolific in bloom. The clear blue base color is marked with a darker blue halo pattern around a bright yellow beard. It really seems to be shooting sparks. It is a good show flower, too.

The plicatas CIRCLETTE, BLUE FLECKS, TIFFY and ZIP are all good growers, in good proportion, well balanced for total plant growth, and are delightful in form and color. TIFFY is one for close inspection, and doesn't show up under artificial light. BLUE FLECKS should get a little more credit than it has had, as it is a blue plicata on the clearest of white, and is even slightly ruffled, which gives it a different form. Of all of the Goett introductions SERENITY is my favorite. The pale lavender self is a rare color, and the flower form and stalk are just perfect. The falls flare, and the standards are domed. Usually there is an extra short branch that gives an extra bud, making four flowers to a stalk, and very often three flowers open at once. It is lovely under artificial light, sets seed easily, and produces well filled pods.

JUST SO is a dandy grower, and produces too many bloomstalks; almost no leaves show. The white-cream standards contrast with the dark chartreuse bordered falls. JUST SO and JOY BRINGER are much alike, as JOY BRINGER is white with a chartreuse halo pattern; but even grown side by side, as I do, they are individuals—JUST SO with its delightful quantity and quality of bloom, and JOY BRINGER equally well formed, with the longest blooming period of any lilliput I grow.

MOONBRIGHT shines out clear and bright in yellow with the nicest icy blue-white beard, grows well and increases rapidly. It is an improvement in yellows.

GREEN METEOR I must mention. For me it grows too large for the height

and stem, but the color is so unusual. Flower form is good. It is a mixed up child of blue and green, with a blue beard. It is a joy in the garden, and after one look its faults are forgotten.

Intermediate Bearded

The intermediates I'd neglected to keep up-to-date, and all comments will be on later ones that were planted in 1965, so first year bloom was not as prolific as I hope it will be later. Those that bloomed were a great addition to the garden. ARABI TREASURE is a vibrant, deep red-violet, heavy on the blue influence, and with a dandy big, fuzzy blue beard. It increased well, is generally a good grower and has a good substance and good form, with very wide, round falls. GALAXY is a real charmer. The standards are clear light blue and the falls white, with a nice blue beard. Blue beards do add so much to the flower beauty. Form and growth are good, and it withstood a strong wind the day it opened, so it must have very good substance.

INDEED was a real delight. It is a recessive yellow from plicatas. The closed standards are a sparkling lemon, and the wide flaring falls are of a different color and texture of white. The white beard is just tinged at the edge with yellow. It set two pods with pollen from tall recessive yellows that rebloom—not many seeds, but a few good ones.

INTERIM is a little PINNACLE, with very good contrast, as the falls are a deep yellow. Branching and stalk are very good, and it grows easily.

Miniature Tall Bearded

TOPSY TURVY is the only late table I had in bloom. It is a real improvement. The standards are deep yellow and the falls are pure white, with a very outstanding orange beard. Excellent proportion and a rapid grower. Now I have ICE FAIRY to guest, and it surely took hold in a hurry.

Border Bearded

Borders just make me shudder. Too many are just plain runts picked out for color only. I agree that colors often are different and delightful, but the plant and stalk usually are ugly. LITTLE REB, BROWN CROWN and JUNGLE SHADOWS are borders. however. BROWN CROWN, a diploid, is different. The standards are brown and the falls red-brown. Second year bloom is a great improvement. LITTLE REB is an ideal border, as it is well proportioned, and the clean white contrasted with the carefully placed plicata marks and the bronze beard make it a lovely thing, and a beautiful show flower. JUNGLE SHADOWS may be a controversial color, but it certainly outdoes anything for increase, substance, form and quantity of bloom. I couldn't attempt to describe the colors as they are a different mixture each time it is viewed, and different in each garden. It is of real value to the border class.

I can't pass up DEBBIE ANN and TIMMIE Too. When they bloom, they are a delight. Dainty, beautiful form and color, and the smallest foliage, but the slowest and stingiest with bloom I've ever had. I keep them with hope—hope for increase, and hope for bloom.

REGION 24—MRS. A. K. (MILDRED) PRIMOS

In Jackson, due to such bad weather conditions, blooms were retarded; those that should have bloomed in February and March bloomed in April, with very few bloomstalks. However, those that did give the best performance here were:

DRUMMER BOY: An outstanding light blue with darker blue on falls. The branching was excellent.

CLOUD FLUFF: Another good performer; a nice, white, ruffled iris.

MAROON CAPER: Mighty fine red-purple.

CHOCOLETO: Not as good a bloomer in '66 as in '65.

LITTLE REB: Nice plicata.

SUGAR: Lovely; ivory with yellow on falls.

BRASSIE and BLUE DENIM were excellent performers; in fact, I almost lost both from too many bloomstalks.

KEWPIE DOLL, GREEN SPOT, WEE ADMIRAL, RED GEM and CHERRY SPOT gave a better performance than I had expected, due to weather conditions.

Median Miscellany

BEE WARBURTON

It would be delightful if for once we could write about our wonderfully variable middle range of bearded irises without having to concern ourselves with how they are, or should be, classed; but only with how they are or can be produced. Unluckily these two problems are engraved front and back on the same medal.

We have to defend our classification because it is continuously being challenged as serious new members come along. It isn't perfect, and a perfect classification is an impossible dream, because the question always hovers, "Perfect for what?" So, we ask, "What is the purpose of classification?" Thus one takes into account both irises AND the people who produce them, AND the fact that we did not, when it was set up, have a large body of existing small irises demanding pigeonholes. What we had to find was a framework that would both encourage production and accommodate all the various types that our busy and imaginative group could come up with, and to my mind we have been extraordinarily successful.

We have produced a remarkable body of medium-sized irises, and while it is true that people will not spend large sums of money for them as they might for new TBs, it also is true that many gardeners prefer them. However, since I am not here to praise them, I will pass over their virtues as self-evident and get on with the theory and practice of breeding them.

CHROMOSOMES FOR LUCK

Once in a while someone informs me that he (or she) has accomplished the whole bit, (and I don't pay heed unless it's a respectable bit), without any knowledge of chromosomes. I don't think it's just luck. I think these people have "the eye" without which all the genetics in the world won't produce good irises. But we can't all be geniuses; most of us have to use anything we can scrounge, and among the more useful tools a knowledge of basic chromosome composition rates A-1.

It's more likely to be luck when somebody who is just crossing at random comes up with a world-beater, but the only reason such crossers can do it

is that the chromosome composition of the group they are crossing is fixed, so they don't need to understand it to make their crosses. It always astounds me to have my TB friends make just one pollination, with the assumption that naturally, of course, it will take. If it doesn't, they are indignant and condemn the variety they've tried as sterile.

But, to build up these present fertile strains, a lot of people made a lot of frustrating pollinations that didn't take, and planted a lot of seed that didn't germinate. If the TB workers had known at the beginning what they know now about the chromosomes of their irises, they would have saved many years of agonizing over infertilities they did not understand.

So, we have been able to build up our present fertile groups fast, because of the knowledge of their chromosomes which was acquired the hard way. We know that in time we will have a group of standard dwarfs as fertile as the present tall bearded; they are nearly as fertile now; and then, we, too, can make just one pollination with assurance that it will take.

In the meantime, people can intercross our standard dwarfs with complete disregard for their chromosomes, and can produce good irises from their progenies. Anybody can cross SKY BABY with BLUE DENIM, and get good blue and white irises. Or, cross BLUEBERRY MUFFINS with ZING and get good blends with purple beards, or maybe even that white with the purple beard. Certainly, nobody can miss with all the good yellows there are to cross. The dark ones will do well by you for darks—they'll do better than that; they'll give you partially inhibited blends, or even clear yellows or near whites with that purple beard.

And, of course, as in crossing TBs, you can make what appears to be a surefire cross and come up with a family of utter dogs. But, then, it wouldn't be worth the bother, otherwise.

FERTILE FORTY-EIGHTS

First and foremost, of course, are the tetraploid tall bearded, everybody's irises. They needn't necessarily be huge, though the reason they were chosen originally was that they loomed up larger than their diploid forms. Without a doubt the natural tetraploid species (or perhaps just cultivars) were picked out from among the stands of the smaller diploids and carried by man (or his woman) to new living places, so that the *mesopotamica*, *Richardi*, *Amas*, *trojana* ancestors of our tall bearded irises were there to be found when the right time came. (They carried the sterile *germanicas*, too, and the fertile forties.)

Without this fertile new tall bearded group we would have no lilliputs, which are the basic material for the standard dwarfs. The group is capable of giving us small selections, but it also is guilty of giving us many short-stemmed tall bearded which the classification lumps with the true border irises. One of our favored breeding projects is mingling the germ plasm of the TBs with the species of the same chromosome count and composition (12-12-12-12) which are natural dwarfs. The resulting group of smaller bearded irises of the same general garden use as the tall bearded, the *aphylla*, *balkana* and *reichenbachii* hybrid group, completely interfertile, can be developed without any special techniques, except those needed to keep ahead of the bees! Thus they are plastic in the hands of artist, as less



BLUE DENIM



BLUEBERRY MUFFINS

fertile lines can never be, and in dealing with them the plant breeder lays both his good sense and his artistic integrity on the line.

From them we may try for new qualities to bring into the genuine tall bearded strains, or we may, as many median breeders do, interwork them for median bearded irises in the 15 to 28 inch range, whether to be classed as intermediates, borders or table irises. Or, we may use them in the same way that we have been using the tall bearded and the small tall selections, in the radical outcross to *I. pumila* for new sorts of dwarf irises.

The origins and chromosome compositions of these 48-chromosome tetraploid irises are well discussed in the doctoral thesis of Fitz Randolph's student, Jyotirmay Mitra,¹ which is interesting reading for a general survey of the subject of iris chromosomes, whether or not you want to take its specific findings to heart.

IRIS PUMILA, THE FOUNDLING FATHER

Among our groups of irises are some with fascinating histories, and *I. pumila* rates with the Louisianas and our Western Natives in this respect. It is a wonderful little plant with perhaps the widest range of any bearded iris species, and innumerable forms have been collected since the first were

raised in this country by Bob Schreiner early in the 1930s. (Davidson, The Pumila Story. *Medianite* 1965). In the 1940s and 1950s, a great number were sent to this country, mainly by Rudolf Hanselmayer (Randolph, Rudolf Hanselmayer. *Medianite* 1963). As Eckard Berlin tells it in *Medianite* 1964, "the collection (of the pumilas) becomes nearly too much to survey—from Roumania, from Serbia, from Russia, from Hungaria, from Tschechoslovakia, from Austria I receive new forms. In Austria Karl Ajdovic helped me very much and last year I received from him the first really amoena pumila, which he had from the wild, from Roumania. My friends in Hungary write that I should come this spring when the pumilas flower, that they have found new forms, nearly orchids and others. In CSR, Milan Blazek had found some pretty pale blue selfs and red-browns. It will take a long time before all these sources are exhausted; the intercrossing linebreeding of pumila from all these sources may give new combinations, and plants of good increase. I hope that in a few years I can send to your breeders in the south enough pumila seed so that from thousands of seedlings they may select pumilas which will flower and grow well in the south.

"Last year Karl Ajdovic sent to me all the seed from a population of pumila near Hainburg, Austria, perhaps 5-6000 seedcorns. In the next years thousands of pumila from these sources will flower and I hope to pick out perhaps 20 which will be good for breeding."

We have had time enough to evaluate these forms, at least partially. In general, the Austrian forms have larger flowers, coarser foliage, and grossly elongated perianth tubes. The Crimean forms and those from Rumania are more delicate, and perhaps harder to grow. The Russians show more chromosome changes (Mitra, The Chromosomes of Iris Pumila, The Median 1959); and have, in some instances, several inches of stems, which is not present in other forms, and in some there has even been a branch. The color range is astonishing, with all yellows, blues and purples, and all types of contrasting fall blotches. In form, although tucked falls are the norm, many have horizontal flare, and they vary greatly in width.

Because it is such an attractive little wildling, it is amazing that *I. pumila* hadn't been more generally grown, especially by rock garden enthusiasts, before the middle of the century. It is in many places a difficult plant to maintain, and large clumps may dwindle and die without any apparent reason. It needs frequent transplanting into extra fertile soil, even though in its native places it grows among grasses and other small plants. Perhaps the secret is that it needs such company; it has been grown successfully with a cover of Johnny-Jump-Ups.

During the first years of the Median Society, probably more seed was set with *pumila* pollen shipped in than was set with home-grown pollen, and enough pollen was collected to furnish at least one sneeze for every American. After the resulting lilliputs had bloomed, members muscled out thousands of dogs. It was all well worth the pains, both because of the fertile strains that eventually emerged, and because of all the vital information received from the crosses of this sort in first and advanced generations.

According to the findings of Randolph and Mitra, which are expounded in one of the basic chromosome studies,¹ *I. pumila* was formed by hybridization between *I. attica* and *I. pseudopumila*, both of which have two 8-chromosome sets, with subsequent doubling of the hybrid's chromosomes. When, how,

or where this came about is interesting to speculate; the wildfire spread of the resulting tetraploid, *I. pumila*, with 32 chromosomes (8-8-8-8) is a classic example of "hybrid vigor."

This discovery led to experiments with the diploid species components, *I. attica* and *I. pseudopumila*. Previously Randolph and Heinig's studies of meiosis in CHANCELOT, the first hybrid of tetraploid tall bearded with *I. attica*,² had given basic information about the chromosomes in this group. Experimental crosses of this sort are still being made, and there are potentials for practical results in production of new garden irises.

Crosses of *I. pseudopumila* with tetraploid tall bearded are difficult and none has been studied for chromosome behavior, but since Mitra found that the *chamaeiris* group probably originated as a doubled hybrid of *I. pseudopumila* with some diploid species ancestral to the tall bearded, it is possible to isolate the chromosomes of *I. pseudopumila* to study their behavior in hybrid combinations. However, they have proved in all instances less fertile than their counterparts with *I. attica*. The "chamaeiris" type has been reconstituted by doubling of the diploid cross of 24-chromosome diploid (12-12) with the *I. pseudopumila* (8-8) and we hope soon to have a report on this from Dr. Randolph, in whose garden the experimental doublings were made. So far no report has reached us of doubling the parallel hybrid of diploid tall bearded (12-12) with *I. attica* (8-8), nor have we heard that anybody has made a tetraploid out of *I. pseudopumila* itself.

Darby, in England, once reported having doubled *I. attica* to 30 chromosomes,⁵ but was apparently unable to follow through this promising lead. *I. taurica*, which is superficially much like the pumilas, shows a karyotype with all four sets resembling the chromosome sets of *I. attica*, but Randolph and Mitra⁴ could not determine whether it is an autotetraploid from *I. attica* or an ancestral type, as *I. pumila* was presumed to be before these chromosome studies, or whether its chromosomes appear so uniform because of chromosomal repatterning. The mechanisms for such repatterning are discussed in Mitra's article in The Median, Vol. 2, 1959.

MATCHING AMPHIDIPOLOIDS

When we cross together irises of the 48-chromosome group (12-12-12-12), which includes the tall bearded and our new *aphylla* and *balkana* hybrids, with those of the 32-chromosome *pumila* group (8-8-8-8), we then have our favorite dwarf irises. These dwarf irises are amphidiploids of 40 chromosomes—that is, they are still tetraploids (12-12-8-8), but have two different sorts of chromosomes. For species hybrids, their fertility is excellent and improves with each succeeding generation.

This is the same 40-chromosome composition as that of the natural species of Italy and France which chromosome karyotype studies showed to have originated from prototypes resembling *Iris pallida* and *pseudopumila*. Our man-made dwarfs are far superior because of the immense improvements in the tall bearded parents, and also because of selection from among the multitude of *I. pumila* variations. In both man-made and natural hybrid combinations we profit from the great capacity of the genus iris for the three processes which have made it one of the most beautiful and diverse of all garden plants: 1) interfertility of unrelated species; 2) easy doubling of

chromosomes, both natural and induced; and 3) the vegetative propagation that favored new cultivars with hybrid vigor.

Crosses of our standard dwarfs of *pumila*-tall parentage with the natural 40-chromosome *chamaeiris*, *italicas*, *olbienses*, etc. are easily made, but the seedlings show some loss in fertility. Ordinarily they will set a few seeds but tend to pollen sterility, a condition which has prevented exploration of their potentials through line-breeding.

UNBALANCED TETRAPLOIDS

In addition to the fertile groupings with chromosomes which match up two by two, which may therefore be linebred for whatever vision of perfection the individual hybridizer carries in his mental slidefile, we have a cross which is made in quantity for its first generation yield. This is, of course, the cross which gives us our fine new intermediates, the cross between tall bearded irises and the new standard dwarfs. These are fine irises, and the potential for producing them has hardly been touched because only when the tall bearded irises and the new standard dwarf irises had both been developed to their present excellence did it become possible to select finished varieties in the first generation of their intercross, thus eliminating the frustration of trying to keep on with them.

Their sterility is not usually absolute, though some come close to it; but gleeful reports of some seed from them do not mean that they are fertile to the necessary point of yielding on demand large numbers of seed and seedlings from sib or self crossings, so that they can be developed to their full potential from a few initial crosses. It is, in fact, nearly impossible to self or sib-cross them at all, so that if they are to be used for further breeding, the backcross makes more sense.

It would be foolhardy to say that any particular sort of cross is impossible; people with interesting other-than-TB iris patches make a large number of odd crosses without thought of their chromosome match, and grow a great many sterile or nearly sterile oddball seedlings, some of which are extremely interesting. But even if we learn a great deal from such crosses, this still is not plant breeding.

Plant breeders make plans for that unbalanced chromosome grouping (12-12-12-8). We have known since the CHANCELOT studies that in cases of such uneven chromosome numbers as this one, and the 36-chromosome (12-8-8-8) from crossing the *pumila*-talls back to *I. pumila*, there is a certain amount of pairing between members of the unlike sets, and we plan to use this abnormal pairing to induce some favorable segregation. The 44-chromosome irises are not, as we have said, totally sterile, even though the appearance of their pollen proves a trap. It looks good, plentiful and fluffy on normal anthers, but it rarely sets a seed. The ovules will respond fairly well to tall bearded pollen, with a norm of perhaps 6 to 8 seed per pod, somewhat less with the standard dwarfs. Either cross will set in a low percentage of pollinations and germination is never of the best.

Both of these crosses have an interesting potential. They may even segregate immediately into something the plant breeder thinks the gardening public might want, or into his own dream of what he would like to produce; and

they do keep open the difficult fertility and titillate his hopes that with the right cross next perhaps he might be able to grow a long row of seedlings and pick out for breeding the ones closest to what he has in mind.

How do they segregate? Markedly for size; and somewhat less for season, since this involves the mechanics of plant growth, that is environment against heredity. From the standard dwarf cross some are tiny, six inches tall with two-inch flowers, and bloom later than normal for such small irises; some from the tall bearded cross have six-inch flowers on ten-inch stems. A number are in the 16-18 inch range with flowers in proportion, but then the flowers lack the tall bearded finish. We begin to feel plaintive. Is there, is there Balm in Gilead?

INDUCED TETRAPLOIDY

Techniques mostly involving colchicine have been used to induce chromosome doubling in plants of many genera; a notable instance in recent years was production of bright red delphiniums. Unfortunately, we don't have a scarlet iris species to start with, as the delphinium breeders did with *D. cardinale*. Apparently we have no gene in irises for synthesizing pelargonidin but must watch for its occurrence by mutation, or somehow induce a mutation artificially, and be clever enough to catch it if it does happen.

Chromosome doubling may be a tool for studying chromosomes; Fitz Randolph used its techniques to verify chromosome studies made in his laboratory by his students, notably Heinig and Mitra. Doubling techniques also have been used to create fertile hybrid strains between two unlike types of irises. In Germany, Max Steiger made some tetraploid hybrids between *I. tectorum* and tall bearded irises; and Dr. Peter Werckmeister has been working with various aril species and hybrids with excellent results. His method has been to cross the onco with the regelia species, which results in a fertile type of hybrid from which he is able to select plants with onco looks and regelia hardiness; he then crosses these widely with *I. pumila*, hoping for the occurrence of an unreduced gamete in the regeliocyclus hybrid, which should then result in a tetraploid with some fertility. Such tetraploids, formed of two sets each of two unrelated types, are known as amphidiploids, and are generally more fertile than tetraploids having all four sets of chromosomes from the same source. At any rate, out of a large number of pollinations made and seedlings grown, Dr. Werckmeister reported some time ago that he had produced two of the anticipated amphidiploid types. One, MILTONIA, was good enough to name, but only pollen fertile; and the other was fertile both ways. From these two he has developed the start of what may become a family of beautiful "aril dwarfs."

There are other ariltype dwarfs which should give delightful hybrids if they could be doubled in combination with different variable iris strains. First are the arenarias (*bloudowii*, *flavissima*), which produce an unusual pink tone in hybrid combinations, but so far have proved resistant to attempts in doubling. Then the pseudoregelias, kamaonensis, sikkimensis, hookeriana are unusual plants, and no proven hybrid has been produced between them and other bearded irises. Perhaps our Russian colleague, Rodionenko, should start with them in making new genera out of our irises!

DIPLOID DOINGS

Dr. Peter Werckmeister analyzed the plastid material in the beard of the diploid iris, DAYSTAR, at Walter Welch's suggestion, and found that there was lycopin present. This is a discovery that hasn't been properly evaluated. DAYSTAR is, in fact, a tangerine-bearded white iris. It was here a long time before the same type appeared in the tetraploids and should have its chromosomes doubled for the record.

As with DAYSTAR, there still is an infinitude of information squeezable out of the diploid irises. We have people working on them almost exclusively. These people breed table irises because they are the one recognized class of bearded irises that remains almost exclusively diploid, in spite of determined efforts to trim tetraploid colors and patterns down, by various breeding schemes, to fit the class.

Most of these schemes involve keeping the tetraploidy for greater variability, but projects with *I. attica* are aimed at reversing the process by cutting the tetraploid chromosomes in half to recreate diploids out of the splendid new tall bearded. As with most schemes of this sort that involve wide crosses, the progress is slow, with perhaps a 15 to 20 year gap between² research and production of garden plants. Darby's CHANCELOT was the type specimen studied by Randolph and Heinig in what proved to be one of our key investigations into the behavior of 12-set and 8-set chromosomes in combination.

In the project for reducing tall bearded chromosomes to diploid (or, as we might say, reducing the status of tall bearded), the theory is that the *attica* set will remain unpaired and eventually disperse, and initial chromosome counts of an advanced generation hybrid show that this can happen, although Freeman Yendall, who is working on these chromosome studies, is not certain that it is entirely the *attica* chromosomes which are dispersed, and there may be some *attica* genes left in these hybrids. In this instance, the hybrid is from (PINK CAMEO x *I. attica* Randolph P-13) crossed with a red-bearded white from (DAYSTAR x *I. cengialtii* K 23-A, from Kew). The seedling, Warburton 60K-1, seems to be fertile both ways, and if it can be selfed or sibbed, will certainly answer that vexing old question as to what IS the phenotype of tangerine diploid (tt).

What, for that matter, is the diploid phenotype of the dominant white, which, as far as we know, doesn't occur in natural diploid irises; and what would its behavior be in diploid crosses? Some of the other new breaks in the tall bearded might be brought down to the diploids, particularly the ruffling, fluting and laciness. Lace especially, although recessive, shows itself in dosages. It has appeared, and is being intensified, in the standard dwarfs, although it seems to be carried on only by their tall-bearded chromosomes. Except that pollen of *I. attica* is hard to get and hard to set, this ought to be a favored project, and certainly it should be a fun one.

I. MELLITA TRIPLOIDS

The small diploid species belonging to the *mellita*, *rubromarginata*, *balkana*, *bosniaca* and *reichenbachii* group have not played a great role in creating new median irises because the diploid members of this group are matched by natural tetraploid members which carry the same germ plasm and are perfectly fertile with the tall bearded irises. Most of the crosses made on tall bearded irises by diploids were with forms of *I. mellita* (of which *I.*

rubromarginata is apparently a variation); and to everybody's surprise, these proved much more fertile than expected from previous experience with the triploids which come from the early diploid tall bearded crossed with the newer tetraploids.

A recent count shows that PROPER LEMON (from a pink TB seedling \times MELLITA VANDEE) has the expected 36 chromosomes (12-12-12), and it is to some extent fertile both ways. It has, in fact, set seed to self, though none has ever germinated. Backcross seedlings with pink TB are readily fertile, and easily set seed to self; it takes few generations of this sort of work to restore full tetraploid behavior, (and full chromosome count, or nearly so, as determined by recent counts by Freeman Yendall), and then what? The resulting seedlings will have some influence of *mellita* genes and what, in future generations, will this do?

Iris mellita carries, besides the dominant amoena which is not present in PROPER LEMON, genes for a lovely, clear, glistening lilac or orchid coloring. For this coloring, Fitz Randolph once carried along a line of diploid tall bearded \times *mellita* hybrids for several generations, but abandoned them finally because they never yielded to improvement. He thought this was because the chromosomes were too unlike for recombination of the necessary factors. This is probably part of the explanation for the fertility of the triploids from *I. mellita*, since if one of the three sets is less compatible with the other two, it is less likely to interfere with regular pairing patterns which make fertile ovules and pollen grains.

However this may be, when a full or approximately full tetraploid chromosome count has been restored by backcrossing, fertility is such that the plants may at times be more easily selfed than is usual with tetraploid varieties, indicating that perhaps some degree of allotropy remains; that is, the *mellita* chromosomes still prefer to pair among themselves if they can find compatible partners.

TANGERINE FOR TEST CROSSING

The tangerine factor is a great addition to our store of recessives of known behavior for test crossing. In the first place, pink irises are well-bred, so we needn't deal with quite such awesome "dogs," as often come from most of the recessive white TBs. In the second place, its manifestations are positive. That they also are detectable at times in less than four full doses is both an asset and a liability. After the pink-petal-tangerine-beard, the strongest showing may be the pink petal sectors, with tangerine-tipped beard hairs, which can be fairly certainly distinguished with a strong glass. In the least manifestations there might be no more than one or two hairs tipped with the presumable lycopin, at the very base of the fall. These beard tips, under the jeweler's glass, have a beautiful luminosity in a deep melon coloring. There is, at times, a certain buffish appearance to the petals, almost a tinge of apricot.

The dosage of recessive tangerine (*t*) has not been determined either for the 44-chromosome intermediate pinks, of which we have had a number named since PINK PRELUDE and LILLIPINKPUT; or for the new 40-chromosome pinks recently developed by Grace Guenther, Alta Brown and Earl Roberts.

MEASURING—AND—THAT BIG BB

There is a surprising consistency in much of the border iris VC from all over—"flowers too large for height." "In proportion" is a minority comment,

unless only nicely proportioned varieties are chosen for comment. Truth to tell, lots of members and judges, too, like them big and say so, although by the nature of our classification we can't offer them as a standard or ideal; and even those who like them so consider their promotion as impediment to development of the class. What they really mean is that, short or tall, they prefer tall bearded to border irises.

Then we have the argument as to what IS good proportion. We would like to combine the artist and the scientist, because we don't consider that the eye alone is enough. Science is based on measurement; how we would love to have our members measure and record what they think is good.

Actually, most people are not just averse to the bother of measuring; they are definitely negative or resistant to the idea of it. And when they DO measure, they forget that all-important subjective—how does 36-24-26 look to YOU at 48, 58, or 68 inches? As Lynn Markham says on page 26 of *Medianite* 1966, ". . . by using the objective and the subjective approaches to the subject *in combination*, we are quite likely to come up with some meaningful results ere long. In fact, we're not doing badly with what we already have, except insofar as it is incomplete.

"Taking a look at the 'remarks' sections, it would seem that those irises which seemed in good proportion also followed a fairly consistent pattern mathematically—that in general flowers much over nine inches combined height and diameter are pushing TB size, while those much under seven inches are too small; and that within those limits, the smaller flowers (in the neighborhood of seven inches—WEE BIT, BLACK AND BLUE, LITTLE LYNN, TWILIGHT TIME) look better on the shorter stems (twenty inches or thereabouts), while the larger flowers (eight inches plus—LITTLE BROTHER, NANCY JEAN, ROBERT MELROSE, LITTLE REB, Muhlestein 56-33-57B) look better on stems 25 inches and up. It also appears that those that seemed out of proportion consisted of upper limit flowers on lower limit stems or lower limit flowers on upper limit stems, according to the tentative mathematical 'limits' I just finished setting, which are by no means official, to be sure.

"This is very broad generalizing, I realize. There are a few cases that don't 'fit,' possibly because nothing has been said here about branching, size of stem, angle of flare, etc. . . . Still, it looks to me as if a trend is emerging from these preliminary reports, and that in most cases the measurements and the 'impression' agree pretty well. . . ."

CREDIT WHERE IT'S DUE

The October 1966 issue of "Medianite" features an article by Fitz Randolph about his species collections, a most interesting account of the difficult joys of collecting plants. These plants made possible the doctoral thesis of Jyotirmay Mitra, without which we would be very much poorer in our knowledge and understanding of our genus. The studies for Dr. Mitra's thesis were carried through under Fitz's supervision, and were followed by further work at Cornell by the Doetors L. F. Randolph, Jyotirmay Mitra and Katherine Heinig. Fitz and Fan followed up their first collecting trip with others, and from all of them they have given plants to interested irisarians. The Median Society has been immensely enriched by these plants, and even financially enriched, for many of them were distributed by auctions. Otherwise, they are not usually sold; and indeed it was quite a problem setting a price upon

their head for the Median Society's 1966 species sale, for which all of the species material was furnished by the Randolphs.

The great amount of experimental work done by members of the Median Society with these plants is recounted partially in the October 1966 Medianite.

References

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ACKNOWLEDGEMENT:

Because I have been both Editor of Medianite, the publication of the Median Iris Society, and the American Iris Society's BULLETIN Representative for its Median Iris Section, I have been responsible for the procurement of a large part of all that has been written about median irises for the past few years. There could be no more talented group than the median membership, and no group could possibly be more generous in the outpouring of its talent.

I can think of no greater privilege than that of being the editor for such a group, communicating with its individual members, and through them, communicating our mutual interest both to ourselves and to the gardening world.

My personal thanks to all of you who have helped to make this issue.

BEE WARBURTON

Charlotte Gantz: MIS Director, Display Gardener, International Chairman, Robin Director, Guest-editor of October 1966 Medianite.

Alta Brown: MIS Director, Display Gardener, hybridizer of prize dwarf and median irises.

Jean Witt: Medianite Editor and Robin Director for Table Irises, Guest-editor July 1965 Medianite, student of diploid iris genetics, MIS Nominating Committee.

John E. Goett: Past-President Median Iris Society, hybridizer and introducer of fine median irises, Display Gardener.

Bennett Jones: Twice RVP of his AIS Region, Display Gardener, border iris specialist, hybridizer of fine dwarf and median irises.

Fitz Randolph: AIS Past President, former AIS Scientific Chairman, plant collector and scientific hybridizer, author of many studies in iris cytology.

Harry Kuesel: MIS First Vice President, Past President and now president of Northeast Median Iris Society, Display Gardener, former Exhibitions Chairman of MIS.

Lynn Markham: MIS Treasurer and Membership Chairman, Editor of Region I BULLETIN, hybridizer of border irises.

Don Tufts: MIS and Region I Publications Chairman, MIS Symposium Chairman.

Carol Ramsey: MIS Exhibitions Chairman, Chairman of "Irises in General" Division of the AIS Robin Program.

Bee Warburton: MIS Past President, now MIS Editor; Director of hybridizing robins. median iris hybridizer.

What Is an Iris Lover?

A Personal Testimony

THOMAS J. BUCKLEY

To the ordinary admirer of the tall bearded iris the occasional person who professes love for some nondescript iris imported from the wild or nurtured from a collected seed is an unusual fellow. If this rare individual shows disdain for the annual offerings of lovely new talls, he may even be considered as somewhat eccentric.

One's first encounter with so singular a person is likely to be roughly coincidental with his discovery that the term "iris," botanically and horticulturally, embraces more than the race of garden hybrids of tall bearded irises illustrated in the color catalogs and predominating in our gardens. While this fact is ordinarily sufficient to make a difference in his knowledge, it rarely makes a difference in his use of the word "iris"—or in his interests or his affections.

Let me offer a word in behalf of the uncommon irisarian.

The one who loves and, indeed, prefers some other class of iris developed for the garden, for instance, the Siberians, the spurias, the Japanese, the Louisianas, or the one whose heart goes out to the less horticulturally perfected denizens of the wild, does not owe excuse or apology for his interests. Rather, I think, he might hope for understanding from other iris enthusiasts, the understanding, that is, that his love is neither unintelligent, nor misguided, nor perverse.

Let me explain. One of the primary facts that one cannot fail to note about the genus *Iris* is the number and variety of its representatives distributed naturally in almost all regions of the northern hemisphere. No doubt the fact is known by irisarians of many preferences. It is, without doubt, also true that this information has little practical meaning for most of them; for this number and variety has the appearance to them of an endless list of difficult, unpronounceable and unintelligible Latin names. So much is this the case that even the admirer of one of the little grown irises feels sometimes compelled to regret that the flower he finds to be of great beauty and desirability in the garden does not bear a more suitable, or more saleable, name.

What I am calling attention to is a widespread ignorance among irisarians of the iris as a whole which has at least the effect of denying them the full range of pleasure that irises can offer. More important, I fear, it is the root of an indifference and even a snobbery which are certainly most undesirable among us. I find it, of course, most frequently among lovers of the tall bearded iris, obviously because they far outnumber all others. With them, it is, at a minimum, an attitude of disinterest in other irises on the grounds that no other iris can compare in beauty and ease of culture with the tall bearded of today.

To be sure, it is more than merely possible for a lover of the tall bearded iris to ignore other kinds of irises; it is even understandable. Perhaps, as it is said, there is no accounting for tastes, but in this instance it is easy to see that the form, beauty and grace of the contemporary tall eminently qualifies it to appeal to the most exacting taste in garden flowers. Not unmindful of the disagreement, at least on the score of beauty, that might come from aril, Japanese, spuria or Louisiana enthusiasts, to mention a few, I myself am

willing to concede the point: the modern tall bearded hybrid is *to me* the most beautiful iris, yes, the most beautiful flower, I know. It is not contempt for the talls that leads me to speak as I do, nor scorn for their admirers. I am one of them.

What I am not willing to concede is that one's love or preference for *any* sort of iris whatever is rational or defensible grounds for ignoring or disliking others. Nor can I see how comparison to any sort of iris can be used as a legitimate criterion for determining to what extent, if any, one should admit into his affections another sort of iris. I do not see the various types of irises competing with each other for the irisarian's love or for first prize in a beauty contest. *They are all beautiful in their own way*, each with an incomparable beauty, and *they are all lovable in their own right*.

To me this is so obvious that I believe it, in principle, not worth saying—except that, in fact, many who would be known as “iris lovers” do not act as though they are aware of it. The love of any type of iris, let me repeat, does not rule out, diminish, or compromise the love of another type of iris or of all other types of irises. No doubt we make our choices, and we like one more than another or we dislike one or another. We may have good personal reasons for our preference. What is not reasonable grounds for liking one less or for disliking it is that he likes another. What could be simpler for an irisarian to acknowledge than this? Yet, how often it is in practice ignored!

It is hard to speak critically in this vein without seeming to single out the fanciers of the tall bearded iris. They are indeed the most frequent examples of what I criticize by reason of their sheer numbers and the weight of their opinion. One does not, however, have to associate long with irisarians of various enthusiasms to discover that others too are just as apt to exhibit an overbearing attitude in regard to their own preferences. They are only less numerous, not less at fault. Wherever it is found, it is the same, differing here or there in intensity, ranging from a minimum of indifference and disinterest to an extreme of snobbery and arrogance. Its most acute form comes accompanied with an expressed or ill-concealed contempt, sometimes clothed in jocular disguise, of other irises and their partisans.

Unfortunately resulting is a lack of understanding and toleration among irisarians of different interests. At times one of them suffers tactless remarks or actual criticisms, received first or second hand, directed at his favorite or at the poverty of his taste for favoring it. Often unable to articulate a justification for his taste, he resorts to retaliation in kind as a means of self-defense and vindication. Though no outward sign of hostility need be noticeable, the ultimate effect is inevitable and regrettable, one degree or another of ill-feeling and uneasiness precisely where we should wish for and expect a sense of unity and fellowship in a common love of the iris. Such misfortune is without good sense or good reason.

Is it not clearly ridiculous to think that we exalt one type of iris or prove our devotion to it by belittling another type or by persisting in judging its beauty and desirability according to the criteria of another? It is no wonder that we encounter petty jealousies and scandalous rivalries which divide the ranks of irisarians and dissipate the energies of individuals and organizations devoted to the promotion of irises.

All types of irises, I will not tire of repeating, are beautiful *in their own right* and lovable *for themselves*. The family of the iris is so wonderfully varied as

to give the irisarian almost more beauty than his acres can accommodate and almost more than his love can encompass. True, an iris of whatever sort is a variation of a basic trinity of parts, a family resemblance. Yet, withal the individual differences that are superficially evident, each type has its own—is there a word to say this—its own elan, or personality, or spirit. Each sings its own siren song. Each speaks its own language of love. Each is a flower world to itself. Each draws its own response from the iris lover.

That, of course, is so much unliteral assertion. There is no possible argument to *prove* what it means literally to say: that each type of iris offers its own special delights. Its claim to truth is that it is a testimony, never quite complete nor quite expressible, of one man's experience with irises of various races. Its proof can be discovered only in that experience. That is, one must grow them, and thus one must know them; for, trite though the saying be, I believe that to know them is to love them, without, needless to say, losing any admiration for one's abiding favorites. At least, one need not hesitate for fear that he would love any iris the less because, in expanding his iris horizons, he finds others lovable too.

I do not dare guess with what hope of success this assurance can be given to the ardent fancier of any given sort of iris. As for those who favor the tall bearded, it is true, of course, that some of them grow or want to grow other irises. Their usual reason, one finds upon inquiry, is to fill in their garden picture when the talls are not in bloom; and sometimes they will tell you this by way of apology for devoting valuable garden space to other irises. I do not myself consider this the most laudable motive for growing other irises, though, I confess, it is better than none. For, albeit tolerated rather than loved, other irises *do* get grown that way, and I am sure that loving them for their own sake is a result of acquaintance with them rather than of native temperament or sudden inspiration. It is, in large measure, for this reason that I listen with dubious feelings to the suggestion that hybridizers make an "everbloomer" of the tall bearded iris, fearing that the other irises would then lose their main chance to be grown and seen and loved. For I am not overly hopeful that the present iris public can be suddenly persuaded that there is no competition among the different kinds of irises or that the "points" of the desirable tall bearded are not criteria of the iris as such.

There are better motives for growing other irises. I have already suggested the principal one. It is also a sole sufficient one: they are lovable in their own right. Their remarkable variety offers the irisarian new and different experiences of delight in their various beauty. That, however, is not a reason of which one can be confident beforehand of persuading anyone else. It is, rather, a matter of his answering the invitation: try them and see.

Another motive—and here one can be confident—is meeting the challenge that growing other irises can offer. Of course, some of the others, those at least which have been developed as garden subjects, are easy to grow and little different from the tall bearded in their culture, though the tall bearded fancier might happily discover that many are hardier and more disease free than are his favorites. Occasional problems with these result usually from insufficient acclimatization, and the present progress toward the development of varieties adapted to a large range for garden conditions promises to remove even these difficulties. Others also intended for garden use do demand

special cultural requirements, acid soil perhaps, or summer aridity, or a boggy situation; and to create and maintain the desired conditions, especially a variety of them within the limits of a single garden, is a challenge to the skill and enterprise of the real gardener.

But the real challenge to the gardener is met among the true species, the irises with the impossible and forbidding names. For the most part, there simply do not exist easily accessible and explicit cultural directions for a large number of these types. Often one has to find out what he can about their native environment and try to approximate it in his own garden. Or he has to find those who have tried a species and learn from the accounts of their successes and failures. Or he just has to try. He must be, indeed, an inquisitive and venturesome soul. Then, too, many of the species, whether plants or seeds, are not easily come by; finding them is an occupation more exciting than a catalog search, and success is more rewarding. And what adds the spice of adventure to one's experiments is that he is likely at length to realize that within the confines of his garden he is growing—or trying to grow—strangers of the iris family from almost every corner of the earth. In his own garden he is holding a sort of family reunion of the scattered members of the clan and trying to make them all feel at home!

Who would dare promise full success in such a venture? Yet, there is a full measure of challenge in it, and the extent of the gardener's success is a partial witness of his skill and a partial symbol of the satisfaction his labors of love have brought to him.

There is another motive, if not for growing other irises, at least for interest in them. Despite the inroads of civilization there are still wild irises in the world (though it is possible that someday most of them will survive only in the gardens of iris lovers). Few could travel the world to seek them out, even if they would. But there are still wildings growing in almost every region of the North American continent. Some areas, to be sure, are endowed with a richer variety or more lavish populations of irises than others, but none has so few that irisarians cannot indulge in a bit of "garden visiting" with a charm of its own and an added dimension of adventure.

There is a special thrill—I will not try to describe it—to come upon the colony or even straggling members of blue, or white, or gold along the rural roadside or country footpath, or in the sunny meadow or rolling prairie, or along the streamside or river bank, or at the side of the marsh or deep within, or on the steep hillside or rocky crag, or on the forest's edge or woodland trail. There before you the colony will put on an iris show, with you the sole judge and visitor. For in their number the variability among the individuals in respect of all the "points" is often remarkable and, to a first-timer, unexpected. They are all there, from "dogs" to blue ribbon winners. What you pin on the winners, though, is not a show ribbon, but some mark that will guide you back to them at transplanting time or at seed harvest time. Of course, you will want seeds, for yourself, for your like minded friends, and for Johnny Appleseeding in likely spots where nature has been negligent in spreading her iris bounty. That may not be everyone's ideal of a nature jaunt. To the iris lover there is none better.

What I am here making is a promise and a plea.

The promise is easy to make because its fulfillment depends on no effort of my own but on what is harder, the effort of the promisee. The promise

is that the expansion of his iris interests and the diversification of his iris activities are full of rewards that he will know by experiencing them.

Easy though it is to make and quite apart from my testimony, the promise does not appear to be an idle one. For the proportion of irisarians whose interests embrace a variety of the members of the genus Iris is greater than it ever has been in recent decades and is growing. The evolution of the contemporary tall bearded resulting from the introduction of the blood of tetraploid species had nearly succeeded in making the name "iris" synonymous with the modern tall bearded among the mass of iris growers throughout most of the country. In recent years, the interests of irisarians have not only returned in some degree to the entire family of the iris, but the example of the hybridizing successes with the tall along with the promise of artificial multiplication of chromosomes and the growing availability of hitherto rare or unknown species have opened new avenues of inter-specific breeding and stimulated new hybridizing activity everywhere in the field of irises. Already some of the early results are beginning to appear in our gardens. Societies for the promotion of other irises have been founded and are flourishing. Other irisarians pursue their interests together more informally through round robins and personal correspondence with old and new-found iris friends. No one at all aware of what is going on in these circles of interest can mistake the enthusiasm and excitement that enliven their activities.

There must be, the facts seem to indicate, something of promise for the one-type-iris-lover in trying to know and love the iris *whole*.

The plea I make is a simple one: let us grow other irises than those we do, if we will. Or, if we will not, let us visit them where they grow, in our neighbors' gardens or in nature's own.

Even if we do neither, let us understand that "iris" is too brimful of meaning to be confined within the limits of a single type; and though we prefer, on whatever grounds we think sufficient, to remain a one-type-iris-lover, let us understand that he who professes love for some other is not necessarily so strange as we may have suspected him to be. He may love our favorite too, as much as we do. In fact, he may be an *iris* lover.

ANNOUNCING!

NEW OWNERS!

NEW LOCATION!

For twenty years the late J. G. "Jack" Linse developed and grew lovely iris at the EASY BREEZE GARDENS in Yakima, Washington. Since Mr. Linse's passing, it has become increasingly difficult for Mrs. Linse to carry on, and she decided to discontinue the commercial iris operations. We are pleased to announce that we have taken over the garden name and arranged to grow and continue selling the lovely Linse iris. We have moved stock, not only of his introductions, but also of the seedlings with which Mr. Linse was working. We feel certain that among these will be several worthy of future introduction. Watch for them!

From our own extensive plantings we will offer a wide selection of talls, medians, dwarfs and arilbreds from other hybridizers. These range from "near collectors items" to the very newest, and we are sure you will find our listing of interest. To reserve your free copy of our 1967 catalog, send name, address and Zip Code to:

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IN MEMORIAM

DR. JOHN W. SCOTT

Dr. John W. Scott, of Lexington, Kentucky, passed away on July 22, at the age of 92. He was a charter member of the Blue Grass Iris Society, and records in the editor's office show that he has been a member of AIS since 1926. He was active in his iris garden during the 1966 bloom season, and had one of the most lovely displays of irises in the Lexington area this year. He particularly liked pinks and variegatas. The 1930 convention in Cincinnati traveled to Lexington, and visited in Dr. Scott's garden and home.

JOHN GUENTHER

John Guenther, Sioux City, Iowa, passed away on June 10, of last year. The many who visited the Guenther garden will miss John's pride in an immaculately kept garden, and his justifiable pride in Grace's median creations. These attributes were a joy to behold.

SCIENTIFIC

On Writing Complex Pedigrees in Iris Breeding

LEONARD MICHEL

In the course of iris breeding it often happens that numerous varieties are used in the makeup of a named variety. The breeding involved may consist of various combinations of simple and complex crosses. Common practices of writing such complex crosses are to use parentheses, brackets, a large \times and a small \times to describe the sequence of crosses used. The difficulty encountered in reading such hybrids and of writing them on a typewriter needs no comment. For most routine uses complex hybrids need not be written out in full, as seedling numbers or other short-cut devices will usually suffice. On the other hand, when a complete history of the cross is needed, a concise straightforward method of writing the parental stocks used is highly desirable. It is to meet this latter need that the following proposed suggestions are made. The suitability of the method for use on a typewriter and by the printer has been kept in mind. The following rules are presented:

1. Crosses are designated by the symbols \times , $2\times$, $3\times$, etc., and indicate successive crosses in the pedigree of the hybrid. The action carried out for any particular cross in the sequence is described by the numerical value of that cross.

2. The parental material involved in any particular cross (\times , $2\times$, $3\times$, etc.) includes all that listed on either side of the symbol in question and up to the next higher value of (\times).

Here are some examples using the present method and proposed method.

Simple

Present—(LAKE ISABELLA \times HAPPY DEB) \times ROCOCO

Proposed—LAKE ISABELLA \times HAPPY DEB $2\times$ ROCOCO

Complex

Present—(SPANISH PEAKS \times NEW SNOW) \times (SWAN BALLET \times CELESTIAL SNOW)

Proposed—SPANISH PEAKS \times NEW SNOW $2\times$ SWAN BALLET \times CELESTIAL SNOW

Complex

Present—((DEFIANCE \times TECHNICOLOR) \times BANG) \times JUNGLE FIRES

Proposed—DEFIANCE \times TECHNICOLOR $2\times$ BANG $3\times$ JUNGLE FIRES

Very Complex

Present—(((HONEYFLOW \times TOBACCO ROAD) \times CLIFDELL) \times ((SALMON SHELL \times Hall 44-09) \times PINK FORMAL)) \times GARDEN GOLD

Proposed—HONEYFLOW \times TOBACCO ROAD $2\times$ CLIFDELL $3\times$ SALMON SHELL \times Hall 44-09 $2\times$ PINK FORMAL $4\times$ GARDEN GOLD

Let me break this cross down:

1st crosses—HONEYFLOW \times TOBACCO ROAD and SALMON SHELL \times Hall 44-09

2nd crosses—(HONEYFLOW \times TOBACCO ROAD) \times CLIFDELL and (SALMON SHELL \times HALL 44-09) \times PINK FORMAL

3rd crosses—((HONEYFLOW \times TOBACCO ROAD) \times CLIFDELL) \times ((SALMON SHELL \times Hall 44-09) \times PINK FORMAL)

4th cross—3rd cross \times GARDEN GOLD

(Did you recognize ULTRAPOISE?)

The proposed method can be added on to indefinitely but of course somewhere along the line the seedling should either be named or introduced or discarded. The only rules now in effect for the Registration Record are:

1. The pod parent is stated first, before \times —Pod Parent \times Pollen Parent.
2. In the parentages of the pod parent and the pollen parent, the small \times is used.

In the January, 1966, AIS BULLETIN No. 180, Dr. Frederick R. Judy outlines his method for writing crosses in an article entitled "Surprise Surprise." In the USDA Small Grain Breeding Program we are using the rules outlined above. Before switching to these rules we had used a system quite similar to what Dr. Judy proposes. I suppose it would be up to the scientific committee to study this matter to see if a change is advisable.

Now I would like to point out what I consider to be common errors in writing crosses which appear frequently in catalogs. Many hybridizers in listing the parentage of a variety will do this: BLUE SAPPHIRE (SNOW FLURRY \times CHIVALRY). I see no reason for enclosing a simple cross in parentheses. It suggests to me that BLUE SAPPHIRE is the result of a cross which has been selfed. Another example of too many parentheses is: HALLELUJAH TRAIL—((COPPER HALO \times RIMFIRE) \times (RIMFIRE \times FULL VOLTAGE)). The two outside parentheses are not needed. Here is another: RIPPLED SUNSHINE—((TRULY YOURS \times LIMELIGHT) \times RIVIERA). Again the two outside parentheses are not needed. OKAW GOLD—(MARY RANDALL \times CONSTANT COMMENT) \times (CARIBOU TRAIL). In this example the male parent should not be enclosed in parentheses.

B. Y. Morrison Research Grant

CHARLOTTE SAWYER

This dream for scientific research for the cultural studies of the genus iris had its origin with a \$25.00 check from Mr. Morrison, to be matched by the Region. That August at the Alabama picnic-auction, a rhizome of BLUE MOUNTAIN was raffled for \$35.00. That October our Region meeting was held at Mississippi State University in Starkville. Bob Carney, Helen McCaughey and Bill Bledsoe were among our speakers and were in on the formative stages of the program. The staff of the Horticulture department agreed to go along with us. Don't forget that we had all of \$56.00 and were asking for so much. At the Region Board meeting, it was voted that each local chapter within the Region give \$25.00 annually to support the project.

The donations started arriving and in one year the fund had reached \$1350.45. That winter a resume of our project was submitted to Dr. Raymond Allen for approval, and thus AIS had voted to match our monies for the successful conclusion of the study. Through the support of Robert Schreiner and his donation of 1,000 rhizomes of the same variety, PINNACLE, the project was a reality.

At our recently completed fall Board meeting, the fund had reached another \$1,456.15, thus making a total of more than \$2,800 raised regionally for this study. We now are more than assured of the financial support of \$5,000, as mentioned by Bob Carney and University officials as an approximate figure.

Really a lion's share of the credit must go to the official board of Region 24. However, this enthusiasm was far reaching. Melba Hamblen again donated rhizomes of each of the 1966 introductions of Mission Bell Gardens; Keith Keppel gave two of his 1966 introductions; Bill Bledsoe gave a rhizome of OLIVE LANGDON. Texas sent a contribution of \$50.00. Region 21 raffled a rhizome of CLOUD CAPERS; the Memphis Area Iris Society voted \$250.00 to the project; Dr. Irwin A. Conroe started regional raffles for "research" at his 1965 regional meeting.

The list of those outside Region 24 who supported this research is a long one. In addition to those previously mentioned, they are: Helen McCaughey, Mollie Emms, Georgia Hinkle, Mrs. Raymond Miller, Dr. Chester Allen, Joe Brinkerhof, Larry Gaultier, Walt Luihn, Alta Brown, Robert Carney, Jake Scharff, Steve Moldovan, Larry Harder and Leon Wolford.

ANNOUNCEMENTS

The Region 14 spring meeting in 1967 will be hosted by the Mt. Diablo Iris Society in Antioch, Calif., on April 22-23. The headquarters for registration and motel accomodations will be the Prime Rib Lodge (formerly the Holiday Lodge). If you are in the area and plan to attend, write James Whitely, 3843 Concord Blvd., Concord, Calif. 94520

ERRATUM

Mrs. Carol Ramsey was secretary for the two shows held in 1966 by the Wichita, Kansas, Area Iris Club, and not show chairman, as was originally reported. Mr. James W. Fry was show chairman for both shows, and deserves commendation for "doubling up" on the hard work performed by all show committees.

SHOWS

Wichita, Kansas: Early show; Belle Carter School, April 30

Wichita, Kansas: Twinlakes Shopping Center, May 14.

Hybridizers

IMMEDIATE ATTENTION

Members attending the Denver, Colorado, convention will be asked to select their favorites among guest irises in the tour gardens. For the results of a similar poll in Newark last year, see the July, 1966 BULLETIN, page 37.

In order for the NEWER GUEST IRISES BALLOT to be as complete as possible, each hybridizer who has sent to this year's tour gardens registered irises that have NOT won the HM award, is requested to send the names of the irises in this category, prior to April 1, to the AIS Executive Secretary, Cliff W. Benson, 2237 Tower Grove Blvd., St. Louis, Mo. 63110.

SUPPLEMENTAL REPORT—EXHIBITIONS COMMITTEE, 1966

Results of reports listed below are those received after August 1, 1966 (August 1 is the deadline for receiving reports included in the regular annual report in the October BULLETIN)

NORFOLK, NEBRASKA

Silver Certificate	Mrs. Arnold Freudenburg
Bronze Certificate	Mrs. N. S. Pederson
Best Arrangement	Mrs. Arnold Hoegermeyer
Artistic Sweepstakes	Mrs. Arnold Hoegermeyer

NEW BRAUNSFELD, TEXAS

Exhibition Certificate	James A. Allen D-17C
Silver Certificate	Mrs. Richard A. Ludwig
Bronze Certificate	Mrs. Alvin B. Welsch

WICHITA FALLS, TEXAS (Garden Club of the Woman's Forum)

Silver Certificate	Mrs. Carl Morrison
Bronze Certificate	Mrs. H. W. Perkins

SUNNYSIDE, WASHINGTON

Exhibition Certificate	63-IR Mrs. Albert Ray
Silver Certificate	Mrs. H. G. Ricck
Bronze Certificate	Mrs. Albert Ray
Best Arrangement	Mrs. William F. Snell
Artistic Sweepstakes	Mrs. William F. Snell

DUPLICATE OF STATEMENT REQUIRED BY THE ACT OF OCTOBER 23, 1962 (SECTION 4369, TITLE 39, UNITED STATES CODE) SHOWING THE OWNERSHIP, MANAGEMENT AND CIRCULATION OF THE BULLETIN OF THE AMERICAN IRIS SOCIETY.

1. Date of filing: October 1, 1966
2. Title of publication: BULLETIN OF THE AMERICAN IRIS SOCIETY.
3. Frequency of issue: Quarterly—January, April, July and October.
4. Location of known office of publication: 2237 Tower Grove Blvd., St. Louis, Missouri 63110
5. Location of publishers: 2237 Tower Grove Blvd., St. Louis, Missouri 63110.
6. Names and addresses of publisher and editor: The American Iris Society, 2237 Tower Grove Blvd., St. Louis, Missouri 63110; Editor, J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebraska 68104.
7. Owner: The American Iris Society, 2237 Tower Grove Blvd., St. Louis, Missouri. No stockholders—only dues paying members (horticultural).
8. Known bondholders, mortgagees, and other security holders owning or holding one percent or more of total amount of bonds, mortgages, or other securities: None.
9. Paragraphs 7 and 8 include in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, also the statements in the two paragraphs show the affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustee, hold stock and securities in a capacity other than that of a bona fide owner. Names and addresses of individuals who are stockholders of a corporation which itself is a stockholder or holder of bonds, mortgages or other securities of the publishing corporation have been included in paragraphs 7 and 8 when the interests of such individuals are equivalent to 1 percent or more of the total amount of the stock or securities of the publishing corporation.

10.

	Average No. Copies Each	Single Issue Nearest to Filing Date
	Issue During Preceding 12 Months	
A. Total No. Copies printed	6,212	6,350
B. Mail subscriptions	5,673	5,753
C. Total Paid Circulation	5,673	5,753
D. Free Distribution	75	25
E. Total Distribution (Sum of C and D)	5,748	5,778
F. Office Use, Left-Over, Unaccounted, Spoiled after Printing	464	572
G. Total (Sum of E and F)	6,212	6,350

I certify that the statements made by me above are correct and complete.

CLIFFORD W. BENSON
Executive Secretary

Report of Treasurer

For Fiscal Year Ending September 30, 1966

Current Assets

Cash in Banks

Central West End Bank, St. Louis (transfer acct.)	\$ 2,441.66
Central West End Bank, St. Louis (petty cash)	1,000.00
Ameriean Bank & Trust Co., Lansing (admin. acct.)	8,384.08
 Total Cash in Banks	 \$11,825.74

Reserve Funds

American Bank & Trust Co. (Savings Acet. #12749)	\$19,264.36
American Bank & Trust Co. (Scientific & Research Acct. #14787) ..	6,760.03
 Total Rescrve Funds	 \$26,024.39

Investments

7 U.S. Series J Bonds \$1000 Maturity Value each	\$ 5,040.00
2 U.S. Series J Bonds \$500 Maturity Value each	720.00
 Total Investments at Cost	 \$ 5,760.00

Physical Assets (Estimated)

Furniture & Equipment	\$ 2,494.00
24 Books "Garden Irises"	120.00
Other books, old checklists, bulletins, etc.	1,264.00
Exhibition Supplies	1,500.00
Color Slides	88.00
2300-1959 Checklists at cost	5,635.00
 Total Physical Assets	 \$11,101.00
Total Net Worth	\$54,711.13
 Gain in Net Worth	 \$ 288.15

STATEMENTS OF RECEIPTS AND DISBURSEMENTS

Cash in Banks, October 1, 1965

Easton-Taylor Trust Co., Petty Cash Account	\$ 1,000.00
Easton-Taylor Trust Co., Transfer Account	4,733.08
American Bank & Trust Co., Admin. Account	5,210.53
	\$10,943.61
 Cash Receipts for Fiscal Year	 42,060.62
Transferred from Scientific and Research Account	810.27
	 \$53,814.50

Disbursements for Fisal Year

Transferred to Other Accounts	
Cash Reserve	\$751.66
Scientific & Research	288.63
	1,040.29
	41,988.76

Cash in Banks as of October 1, 1966

Central West End Bank, Petty Cash Account	\$ 1,000.00
Central West End Bank, Transfer Account	2,441.66
American Bank & Trust Co., Admin. Account	8,384.08
	\$11,825.74

STATEMENT OF RECEIPTS

Memberships

Renewal Single Annual	\$13,080.04
Renewal Family Annual	4,836.48
Renewal Single Triennial	2,862.13
Renewal Family Triennial	1,455.00
New Single Annual	2,702.20
New Family Annual	714.00
New Single Triennial	499.00
New Family Triennial	210.00
Sustaining	70.00
Research	150.00
Life	325.00
Affiliate	100.00
	<hr/> \$27,003.85

Others

Dues Collected for Sections of Society	1,013.98
Dues Collected for BIS	532.00
Books, Color Charts & Merchandise for Resale	818.60
BULLETINS	115.05
Old Check Lists	90.00
Slides	331.00
Membership Tapes	247.55
BULLETIN Advertising	2,927.05
Registration Committee	1,924.11
Exhibition Committee	3,706.96
Miscellaneous	69.85
Garden Irises	1,462.33
Interest Earned	1,040.29
1959 Check Lists	251.00
Research Gift—Northwest Median Dwarf Soc.	27.00
Research Gift—Ethel Anson Peckham	500.00
	<hr/> \$15,056.77
Total Receipts	\$42,060.62

STATEMENT OF DISBURSEMENTS

Bulletin Expense

Salaries	\$1,250.00
Printing	9,067.55
Engraving & Photography	947.50
Postage & Envelopes	836.35
Supplies	90.11
Miscellaneous	347.35
	<hr/> \$12,538.86

Secretary's Office Expense

Salaries	\$10,723.34
Postage & Shipping	1,714.68
Printing	265.43
Supplies	211.68
Telephone & Telegraph	124.04
Insurance	152.00
Refunds	122.07

Secretary Travel Expense	424.17
Books, etc. for Resale	337.16
Gifts (in lieu of rent)	1,000.00
Miscellaneous	233.92
Garden Irises	103.50
Equipment Repairs & Maintenance	88.50
Advertising	733.04
Furniture & Equipment	67.50

\$16,301.03

Other Expenses

Awards Account	1,562.08
Exhibition Account	4,216.73
Membership Account	150.00
Registration Account	1,624.00
Robin Account	140.00
Test Garden Account	321.28
Slides Account	57.65
RVP Account	99.26
Officers Printing Account	327.65
Payroll Taxes	466.95
BIS for American Memberships—1965	529.00
Scientific & Research Account	1,600.00
Dues Returned to Sections of Society	1,013.98

\$12,108.58

Total Disbursements	\$40,948.47
Transferred to Scientific & Research	\$ 288.63
Transferred to Cash Reserve	751.66

Total Disbursements and Transfers	\$ 1,040.29
	<u>41,988.76</u>

JAY C. ACKERMAN, Treasurer

Minutes of Directors' Meeting

The Brown Palace Hotel, Denver, Colorado

November 5-6, 1966

The meeting was called to order at 8:30 A.M. by President Fischer with the following in attendance: First Vice President Nelson, Second Vice President Bledsoe, Past Presidents Carney, Rogers and Walker, Directors Allen, Buxton, Durrance, Gaultier, Hamblen, Schreiner, Varnum, Wood, Treasurer Ackerman and Executive Secretary Benson. Absent: Director Bartholomew. Herbert M. Parker, Chairman, Scientific Committee, attended the sessions.

The four nominees for the Board of Directors whose names were submitted to the AIS membership by letter date July 18, 1966, in accordance with the bylaws, were declared elected for three-year terms. They are Dr. Raymond C. Allen, Ohio; Mr. William T. Bledsoe, Tennessee; Mr. Larry Gaultier, California and Mr. Robert Schreiner, Oregon.

The following official motions were duly made, seconded and passed by the Board.

Approval of the minutes of the Board meeting in Newark, New Jersey, May 28th and 29th, 1966, published in the July, 1966, BULLETIN, after amending that portion that concerns the RVPs' points of discussion to include:

"5. To warmly approve the 1965 Handbook for Judges and Exhibitions."

The reports by chairmen of the following committees were approved with appreciation of the valuable services rendered the Society:

Awards	Mr. J. Arthur Nelson
Affiliates & Sections	Mr. Edward E. Varnum
Anniversary BULLETIN	Mr. Ira E. Wood
Exhibitions	Mr. Wm. T. Bledsoe
Garden Judges	Mrs. Walter H. Buxton
Membership	Mr. Clifford W. Benson
Judges Training	Mr. Larry Gaultier
Publications	Mr. J. Arthur Nelson
Registrations	Mrs. James R. Hamblen
Round Robins	Mr. John A. Bartholomew (by Fischer)
RVP Counsellor	Mr. Robert S. Carney
Scientific	Mr. Herbert M. Parker
Historian	Mrs. C. E. McCaughey (by Fischer)
Slides	Mr. Robert Schreiner
Regional Test Gardens	Dr. Jack R. Durrance
National Test Gardens	Dr. Ray C. Allen
1970 Convention	Mr. Wm. H. Peck (by Fischer)
Honorary Medals	Mr. Robert S. Carney

Treasurer J. C. Ackerman presented a report on the financial condition of the Society as audited by Harris, Reems and Ambrose, certified public accountants, Lansing, Michigan. The report was accepted with sincere appreciation and publication in the BULLETIN was authorized.

Executive Secretary Benson reported on the present membership of the Society by Regions and States, and reported that the Society had 6,732 paid up members as of November 1st. The five Regions with the largest number of members were: Region 17, 589 members; Region 18, 521 members; Region 6, 491, members; Region 4, 429 members and Region 14, 409 members.

Anniversary BULLETIN Committee Chairman Wood reported as follows:

1. The committee believes that the Anniversary BULLETIN should be something special that every member will want to preserve for future reference.
2. The committee recommends that the Special Anniversary BULLETIN be published in April, 1970. The anniversary material should be a separate supplement.
3. The committee suggests, as a tentative table of contents, any suitable material selected from back issues of the BULLETIN in the following categories:

- | | |
|---|-------------------------------------|
| a. Memorabilia | e. AIS Award System |
| b. Reminiscences | f. Development of judging standards |
| c. Historical reprints | g. Tabulation |
| d. Sketches of our honored members,
past presidents, Hybridizer medalists
and Distinguished Service medalists | h. Index |

It was voted to rescind in its entirety, Rule 4, Page 26, *1965 Judge's Handbook*, and to substitute the following:

THE SCHEDULE SHOULD, WHERE POSSIBLE, PROVIDE FOR A SEEDLING DIVISION. AN UNINTRODUCED IRIS OF ANY SECTION OR KIND IS ELIGIBLE FOR ENTRY IN THIS DIVISION, BUT NOT IN ANY OTHER. WHERE MERITED, AWARDS OF AIS ROSETTES AND EXHIBITION CERTIFICATES ARE AUTHORIZED. AN ENTRY IN THIS DIVISION MUST BE MADE IN THE NAME OF THE OWNER OF THE CLONE.

Show chairmen should make sure that each entry is identified by either a number or a name. A person other than the owner of the clone may exhibit an entry in this division, provided it is entered in the owner's name. Any award, AIS or local, for an entry in this division will be made to the owner of the clone. For the purpose of this rule, a clone is defined as the aggregate total resulting from a plant originally grown from a seed, plus the increase from rhizome multiplication.

It was voted that effective November 1, 1968, AIS Garden Judges and exhibition Judges be combined into one class of AIS Judges, with regional quotas set at a reasonable percentage not to exceed 15% of the AIS membership in the regions. That the Chairman, Exhibitions Committee, be empowered to authorize a special individual, not an AIS-accredited Judge, to officiate in one show only in an isolated area where an AIS-accredited Judge is not reasonably available—this appointive authority to be exercised only in rare cases, solely as an emergency measure. That adoption of this motion be made contingent on approval by the Board of Directors of specific guidelines for adequate training of AIS Judges—such guidelines to be those attached hereto. That effective November 1st, 1968, recommendations for new appointments by RVPs for Apprentice Judgeships must be made in accordance with the approved AIS Guidelines for Judges' Training.

That in making the change-over, the following principles will apply:

1. Since AIS Garden Judges are now also qualified under AIS rules as Exhibition Judges, they will be "blanketed-in" as full-fledged AIS Judges.

2. Since AIS Exhibition Judges are not now qualified under AIS rules to function as Garden Judges, they will, UPON REQUEST, receive two training sessions of two hours each in judging seedlings and new varieties in a garden which is in bloom—such training to be under the tutelage of an AIS-accredited Garden Judge. Upon the successful completion of these two sessions, such Exhibition Judges will be certified as AIS Judges.

3. Exhibition Judges who do not choose to become full-fledged AIS Judges after November 1st, 1968, may retain their present status so long as they remain in active service as Exhibition Judges, and will, therefore, not be required to fulfill the requirements for Garden Judges. However, after November 1st, 1968, they will be counted as a part of the regional 15% quota. Appointments of judges after November 1st, 1968, will not be approved, except as apprentices who expect to become full-fledged AIS Judges upon completion of the required apprentice training.

(Note: The approved Guidelines will be published in an early issue of the BULLETIN)

The following recommendations were discussed and passed at a meeting consisting of fifteen RVPs or their alternates, May 28, 1966, Newark, New Jersey:

1. The RVPs, having examined the current RVP Handbook and finding it inadequate in many respects, have directed the appointment of a committee of five of its members to prepare a revision for the consideration of the Executive Board.

2. It was recommended that the National Office include the year of original appointment of all garden judges when publishing the annual Judge's roster.

3. It was recommended that each RVP be furnished a copy of the minutes of each Executive Board meeting promptly after the adjournment of such meetings.

4. It was recommended that the Awards Committee furnish each RVP with the names of all judges not turning in awards ballots each year.

5. The RVPs wish to go on record as approving the current Judge's Handbook as an excellent training guide. They would like to explore an effective means of implementing the dissemination of this material to all present and prospective judges.

6. Several other matters on the meeting agenda were deemed to be entitled to further study and arrangements are in progress to report these out of committee prior to the next annual meeting of the American Iris Society.

It was voted not to accept advertisements that appear in miscellaneous publications as official notification of introduction.

It was voted to authorize the presentation of the National Test Garden award to Mrs. Melba Hamblen and Mrs. Bernice Roe.

It was voted to appoint Mr. LeRoy Davidson as a member of the Scientific Committee and as chairman of the Species Committee.

It was voted to approve an appropriation of \$250 for the Scientific Committee.

It was voted to extend thanks to Region 19 for the donation of colored slides to the Slides Committee.

It was voted that the BULLETIN will carry no advertisements of iris prices except those concerning the hybridizers' or introducers' own irises.

It was voted to authorize the St. Louis office to purchase a Sony #900 tape recorder.

It was voted to authorize the chairman of Affiliates to arrange for the preparation of a suitable certificate for Affiliate members of the AIS.

It was voted to establish a Junior membership in the AIS for a nominal fee. "Bulletin for the Junior Grower," compiled by Marjorie Milton, Stockton, California, will serve as a guideline.

It was voted to authorize the Mabel F. Johnson Memorial Medal for the Eric Nies award winners. This medal will be in lieu of the AIS certificate.

The Distinguished Service Medal was awarded to Dr. Philip A. Loomis, Colorado Springs, Colorado.

The Hybridizer's Medal was awarded to Mr. Walker Ferguson, Escondido, California; Mrs. Georgia Hinkle, Marion, Illinois and Mrs. Bec Warburton, Westboro, Massachusetts.

It was voted to transfer the function of filling out and forwarding of AIS show certificates from Tennessee to St. Louis.

It was voted to appoint a committee to study the classification of irises.

The following foreign members were appointed Garden Judges:

Mrs. Flaminia Specht, Italy Prof. Gian Luigi Sani, Italy

The following members were appointed Honorary Judges:

The following members were appointed Senior Judges:

Mr. Clifford W. Benson, Missouri
Mr. Z. G. Benson, Texas
Miss Olive Bowman, Ohio
Miss Lily Buder, Missouri
Mr. Walter Button, Illinois
Miss Marie Caillet, Louisiana
Mr. George Dubes, Iowa
Mrs. B. E. Ellis, Iowa
Dr. Frank B. Galyon, Tennessee
Miss Hazel Grapes, Nebraska
Mr. C. Allen Harper, Missouri
Mr. C. Russell Hopson, California
Mrs. Charles Kavan, Nebraska
Mrs. Alford Kramer, Idaho

Mr. Forrest V. McCord, Indiana
Mr. Louis McDonald, Virginia
Prof. Homer N. Metcalf, Montana
Mrs. Ray C. Palmer, Missouri
Mrs. Robert Reinhardt, Wisconsin
Mr. Nathan Rudolph, Illinois
Mrs. J. H. Salley, Kansas
Mr. Lloyd Schoonover, Kansas
Mrs. Herbert Shinkle, Ohio
Mrs. Jake L. Smith, Washington
Mrs. Lowell Storm, Wyoming
Mrs. Glenn Suiter, Idaho
Mr. McL D. Wallace, Alabama

Appointments of new RVPs for 1967 were made as follows:

- 2. Mr. Wm. H. Peck, Mt Rt-Box #30, Oyster Bay, N.Y. 11771
 - 5. Mrs. Vivian M. Buchanan, 2000 West Wesley Rd., NW., Atlanta, Ga. 30327
 - 7. Mr. Franklin Tice, 1220 Tates Creek Pike, Lexington, Ky. 40502
 - 13. Mr. Herbert M. Parker, 2030 Harris Avenue, Richland, Wash. 99352
 - 20. Mr. Charles P. Gordon, 414 Eudora Street, Denver, Colo. 80220

23. Mrs. Bernard Lowenstein, 611 Alico Drive, SE., Albuquerque, N.M. 87108
 24. Mr. Joe M. Langdon, 5605 11th Avenue, So., Birmingham, Ala. 35222

The following RVPs who have served either one or two years were reappointed for 1967:

- | | |
|---------------------------|-----------------------------|
| 1. Mr. Samuel Harper | 12. Dr. Odell Julander |
| 3. Mrs. Elizabeth H. Rowe | 14. Mrs. Bernice Roe |
| 4. Mrs. Rena Frantz | 15. Mrs. Barbara Serdynski |
| 6. Mr. Anthony Willott | 16. Mr. Douglas Insleay |
| 8. Mr. Glenn F. Hanson | 17. Mr. Leon C. Wolford |
| 9. Mr. Lerton W. Hooker | 18. Mr. C. Allen Harper |
| 10. Mrs. Ruth Noel | 19. Mr. Paul L. Hoffmeister |
| 11. Mrs. Ed Conrad | 21. Mr. Larry Harder |
| | 22. Mr. John W. Humphrey |

Betty Rowe was appointed Youth Program chairman, Joe Gatty Public Relations and Publicity chairman, and Roy Davidson Species chairman.

The following schedule of annual conventions was reviewed and approved:

1967 Denver, Colorado	May 31 through June 3
1968 Berkeley, California	April 27 through April 30
1969 Milwaukee, Wisconsin	June 5 through June 7
1970 New York City, New York	Dates undetermined
1971 Wichita, Kansas	Dates undertermined

The following tentative future conventions were discussed:

1972 Salem-Portland, Oregon	Dates undertermined
1973 Cleveland, Ohio	Dates undertermined
1974 Pittsburgh, Pennsylvania	Dates undertermined

The following officers were elected for the ensuing year:

President	Mr. Hubert A. Fischer
First Vice President	Mr. J. Arthur Nelson
Second Vice President	Mr. William T. Bledsoe
Treasurer	Mr. Jay C. Ackerman
Executive Secretary	Mr. Clifford W. Benson

A vote of thanks was extended to Dr. Jack Durrance and his associates for their excellent arrangements and hosting provided for this meeting.

The Board meeting was adjourned at 11:00 A.M., November 6.

CLIFFORD W. BENSON
Executive Secretary

AWARDS FOR PARTICIPATING IN 1965-1966 MEMBERSHIP CAMPAIGN

Region	Name	Award
7	Mr. & Mrs. J. W. Alexander, Lexington, Kentucky	1 Year Family
	Mr. & Mrs. A. V. Blaydes, Memphis, Tennessee	1 Year Family
	Mr. & Mrs. R. C. Crocker, Memphis, Tennessee	1 Year Family
	Mr. & Mrs. Hyman Pannell, Memphis, Tennessee	1 Year Family
8	Mrs. Edward G. Miller, Milwaukee, Wisconsin	2 Year Single
	Mr. & Mrs. Clarence H. Protzmann, Milwaukee, Wisconsin	1 Year Family
9	Mrs. Elmer Kennedy, Western Springs, Illinois	1 Year Single
	Mr. & Mrs. Frank Lang, Melrose Park, Illinois	1 Year Family
13	Mrs. A. W. Perkins, Walla Walla, Washington	3 Year Single
14	Mr. & Mrs. Tom Graham, Antioch, California	1 Year Family
	Mrs. R. Nelson Nicholson, Stockton, California	1 Year Family
15	Mr. & Mrs. N. R. Carrington, San Diego, California	1 Year Family
	Mr. & Mrs. M. B. Morrow, Phoenix, Arizona	1 Year Family
	Mrs. George M. Roach, Sr., Los Angeles, California	4 Year Single
	Mr. & Mrs. Paul Runde, San Diego, California	1 Year Family

17	Mrs. Herman C. Borne, New Braunfels, Texas Mrs. Hazel J. Jaekson, Medina, Texas Mr. & Mrs. Vernon Keesee, Lubbock, Texas Mr. & Mrs. Les Rowland, Abilene, Texas Mr. & Mrs. John C. Sexton, El Paso, Texas Mr. & Mrs. Howard O. Wilson, Bangs, Texas Mr. & Mrs. Leon C. Wolford, Dallas, Texas	1 Year Single 5 Year Single 1 Year Family 1 Year Family 1 Year Family 1 Year Family 3 Year Family
18	Mr. Clifford W. Benson, Chesterfield, Missouri Mr. & Mrs. James L. Chism, Festus, Missouri Mrs. Charles Jendel, Wichita, Kansas	1 Year Single 1 Year Family 1 Year Family
21	Mr. Larry L. Harder, Ponea, Nebraska	1 Year Single
24	Mrs. Alfred H. Hecht, Huntsville, Alabama Mrs. Everett H. Hughes, Jaekson, Mississippi Mr. & Mrs. Joe M. Langdon, Birmingham, Alabama	1 Year Single 1 Year Family 2 Year Family

AWARDS FOR REGIONS

Region #17—largest net gain in membership—an award of \$50.00
 Region # 1—second largest net gain in membership—an award of \$25.00
 Region # 8—largest percentage net gain in membership—an award of \$50.00
 Region #17—second largest percentage net gain in membership—award of \$25.00

1967 Membership Campaign

Elsewhere in this BULLETIN will be found the results of the 1966 membership campaign. Your membership committee appreiates greatly the fine contributions of the many who worked on this campaign, and speaks for an enthusiastic participation in the 1967 eampanig by workers in all 24 of our Regions. We hold to the same target, A SUBSTANTIAL NET GAIN OF NEW MEMBERS REALLY INTERESTED IN IRISES AND OUR SOCIETY'S OBJECTIVES.

CAMPAIGN PLAN

For every six new members secured, the participant will be awarded one single annual membership extension.

For every seven new members seured, the partieipant will be awarded one family membership extension.

Partieipants will be ereditied for the various types of membership to the following schedule:

Type Membership	Will Count As
Single Annual	1 new member
Family Annual	2 new members
Single Triennial	3 new members
Family Triennial	5 new members
Sustaining	5 new members
Researh	10 new members
Life Membership	25 new members
Change from Single Annual to Family	1 new member
Change from Single Triennial to Family	2 new members

RULES

1. Each new membership must be sent to the Regional Vice President or Regional Membership Chairman within one week after it is seured.
2. Each new membership should be reported to the RVP on a separate slip of paper (postcard size) showing name, address of participant seuring the new member. This slip should be used by the RVP in reporting to the MEMBERSHIP CAMPAIGN CHAIRMAN.

3. New memberships are to be credited only to the participants securing them.
4. Renewal of membership after lapse of one year will count as a new member.
5. New memberships received by the Secretary in the St. Louis office after September 30, 1966, will not be counted.

AWARDS FOR REGIONS

Cash awards are offered to the Regions actively participating in our Membership Campaign. Their purpose is to stimulate efforts in retaining the members we have. We accomplish little for our Society if a member drops out after one or two years of membership.

To the Region with the largest net gain in membership an award of \$50.00

To the Region with the second largest net gain in membership an award of \$25.00

To the Region with the largest percentage net gain in membership an award of \$50.00

To the Region with the second largest percentage net gain in membership an award of \$25.00

CLIFFORD W. BENSON
Membership Chairman

THE BRITISH IRIS SOCIETY

invites members of the AIS to join the BIS. For an annual subscription of only \$2 members receive three Newsletters and the Year Book. This book is welcomed by iris lovers all over the world for its authoritative articles covering all aspects of iris growing and for its reports of current developments in all sections of the iris family. New members may pay \$3 to obtain the 1966 Year Book now as well as full membership for 1967.

Mail your check for \$3.00 today to the American Iris Society, 2237 Tower Grove Blvd., Saint Louis, Missouri 63110. Your payment will be advised to the British Iris Society who will confirm receipt and send you the 1966 Year Book by return.

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

For that additional program fill-out the following sets are offered:

- ... Set of the newer tall bearded irises, including many of the recent award winners—top favorites—and selected garden scenes.*
- ... Set of various bearded species and hybrids, other than tall bearded, including standard dwarf, intermediate, table, and border bearded types, and some very special slides of the arils in various types.*
- ... Set of various bulbous irises including reticulatas and juno irises. Also many species and hybrids of the beardless family including: Crested, Louisiana, Western natives, Spurias (including some of the most recent spurias just out), Siberians, and Japanese.*
- ... Set of the ever popular, less expensive, fine bearded irises that have stood the test of time and grace any garden with their beauty and excellence.*
- ... Set of irises at the AIS convention in Newark 1966. For those who could not go to Denver here is a picturization on film of many, many of the very newest irises. See them in the comforts of your own meeting room. Yes, you'll see new irises, gardens, and intimate glimpses of some of the iris personalities who attended the Newark convention.*

Requests for slides should be made well in advance for proper scheduling, preferably 30 days or longer. Include a second date if possible. Give the exact date desired so that slides can be sent insured airmail. They are to be returned in the same manner. The rental fee is \$5.00, payable in advance, for each set of 100 slides. Make checks to the American Iris Society and mail with your receipts to:

ROBERT SCHREINER, Chairman, Slides Committee,
Route 2, Box 301, Salem, Oregon, 97303.

BULLETIN ADVERTISING RATES

COMMERCIAL DIRECTORY (listings in alphabetical order)

Rates per four issues—no discounts

Single space (one inch—not to exceed six lines)	\$10.00
Double space (not to exceed 12 lines)	16.00

DISPLAY ADVERTISING

One inch, single column	9.00
One-quarter page	18.00
One-third page	24.00
One-half page	32.50
One page	60.00

Note: Display advertising rates are per single issue.

Discount of 20% for each succeeding issue during the calendar year.

Send advertising copy and checks to:

THE AMERICAN IRIS SOCIETY
2237 Tower Grove Blvd., St. Louis, Missouri 63110

AIS MEMBERSHIP RATES

Annual	\$ 5.00	Sustaining	10.00
Triennial	12.50	Research	25.00
Family	6.00	Life	100.00
Family Triennial	15.00	Family Life	125.00

SECTION DUES

	Japanese	Median	Siberian	Spuria
Single Annual	\$2.00	\$2.00	\$1.00	\$1.00
Single Triennial	5.00	5.00	3.00	2.50
Family Annual	2.50	2.50		1.50
Family Triennial	6.00	6.00		3.50
Annual Supporting	3.00	3.00		3.00

IMPORTANT: Section dues, if paid through AIS, MUST be for the same duration as your AIS dues. AIS FAMILY member desiring SINGLE Section membership, PLEASE indicate which person is applying for Section membership.

HOW TO JOIN AN AIS ROBIN

Applications for Tall Bearded Robins should be sent to the National Program Director. For membership in other divisions, application may go to the National Program Director (advising which division you wish to join) or to the chairman of the Division in which you wish to enroll. The Irises in General, General Hybridizing and General Medians Divisions are recommended for fairly new irisarians wishing to gain broad general background on those topics. Regional Robin applications may be sent to your own Regional robin representative, the National Director or the division chairman. For names and addresses of National Robin Program personnel please refer to the directory of FLIGHT LINES on the second page.

HOW TO REGISTER AND INTRODUCE AN IRIS

These instructions apply to the registration of all classes of irises *except bulbous irises*.

1. Write to our Registrar-Recorder, J. Arthur Nelson, 3131 North 58th St., Omaha, Nebr. 68104, for a registration blank, enclosing check for the registration fee payable to the American Iris Society.

2. The registration fee is \$2.00 for each iris. For each transfer of a name from one iris to another the fee is \$4.00.

3. Select a name which has not been previously registered, which can be submitted for approval when you write for the blank. If you will first look in the Check Lists and the annual reports of the Registrar since 1959 to see if the name has been previously registered, you will save time for yourself and for the Registrar. Please also suggest an alternate name. Mr. Nelson will hold an approved name for a short time to enable you to complete the blank and send it back, but *a name is not registered until the registration blank is filed and approved by him*. A registration certificate will then be sent to you.

4. Names should follow the rules established by the International Horticultural Code, and the following names shall not be admissible:

- a. Names of living persons without the written permission of that person.
- b. Names of persons including forms of address. (That is, JANE DOE, not MRS. JANE DOE.)
- c. Names including numerals or symbols.
- d. Names beginning with the articles "a" and "the" or their equivalent in other languages unless required by linguistic custom.
- e. Abbreviations unless required by linguistic custom.
- f. Latin names or latinized forms. However, the AIS custom of using part of the Latin names of a species, namely, the specific epithet as part of the cultivar name when this seems appropriate, shall be continued.
- g. Use of trademark or copyrighted names unless previously in common use.
- h. A slight variation of previously registered name.
- i. Names containing more than three words.
- j. Names which exaggerate or may become inaccurate. (e.g., HEAVIEST LACE, TALLEST BLACK.)

5. Previously registered names may be re-used provided (a) the original registration has not been introduced or distributed by name, (b) does not appear by name in later parentage registrations, and (c) the new registrant furnishes the Registrar with a written statement of permission from the previous registrant.

6. Names will not be released as obsolete unless there is proof that no stock now exists and that the iris was never used as a parent.

7. Make parentage records explicit, and include seedling numbers when possible. Color descriptions should be concise, and the designation, conforming to the latest Iris Color Classification of the Committee on Exhibitions, should be included.

8. Classifications of bearded irises will conform to the rules outlined in the January 1958 BULLETIN, pages 9-17. Height and season of bloom are most important. These classifications may be summarized as follows:

1) Miniature Dwarf Bearded (MDB)	Less than 10"—early blooms.
2) Standard Dwarf Bearded (SDB)	10" to 15".
3) Intermediates (IB)	15" to 28"—hybrids of dwarf x TB—bloom between dwarfs and TBs.
4) Miniature Tall Bearded (MTB)	(Table irises.) 15" to 28"—slender, flexuous stalks, with small flowers.
5) Border (BB)	15" to 28"—shorter irises of TB parentage.
6) Tall bearded (TB)	28" or more.

9. **Introduction.** An introduction is an offering for sale to the public. Catalogs, printed lists, and advertisements in the American Iris Society BULLETIN, are acceptable mediums of introduction. It is a requisite for the awards of the Society above that of High Commendation. A *variety is not eligible for these awards until one year after it has been recorded with Mr. Nelson*. Send him a copy of the catalog, list, or advertisement by first-class mail and he will acknowledge that fact that it has been recorded.

AWARDS

1966 MEDIAN SYMPOSIUM

Standard Dwarf Bearded

1. BLUEBERRY MUFFINS
2. BLUE DENIM
3. ZING
4. GOLDEN FAIR
5. SKY BABY
6. BRASSIE
7. GREEN SPOT
8. KNOTTY PINE
9. EASTER HOLIDAY
10. LILLI-WHITE
11. CIRCLETTE
- SHINE BOY
13. DARK FAIRY

Intermediate Bearded

1. LIME RIPPLES
2. CUTIE
3. LILLIPINKPUT
4. KISS ME KATE
5. CLOUD FLUFF
6. MOONCHILD
7. BLUE ASTERISK
8. MAROON CAPER
9. SUGAR
10. BARBI
11. LITTLE ANGEL
12. SMALL WORLD
13. ARCTIC FLARE

Miniature Tall Bearded

1. PEWEE
2. WIDGET
3. TOM TIT
4. DAYSTAR
5. DAINTY DANCER
6. DESERT QUAIL
7. WARBLER
8. KALEIDOSCOPE
9. TWO FOR TEA
10. PARAKEET
11. SMARTY PANTS

Border Bearded

1. JUNGLE SHADOWS
2. TULARE
3. FRENCHI
4. LITTLE REB
5. BAYADERE
6. TIMMIE TOO
7. YELLOW DRESDEN
8. DEBBIE ANN
9. GLACIER BAY
BLACK FOREST
11. CHOCOLETO
12. LITTLE SIR ECHO

SHOW AWARDS

Rococo won the Nelson Award for winning Queen of Show the most times in the 1966 season. Had the award been in operation since 1958, the following Irises would have been the award winners.

- 1958 CHIVALRY, PIERRE MENARD (Tie)
- 1959 STARSHINE, VIOLET HARMONY (Tie)
- 1960 VIOLET HARMONY
- 1961 VIOLET HARMONY
- 1962 BLUE SAPPHIRE
- 1963 BLUE SAPPHIRE
- 1964 STARSHINE, VIOLET HARMONY (Tie)
- 1965 VIOLET HARMONY

CONGRATULATIONS

The congratulations of the Society to Mrs. Rex (Alta) Brown. Alta was presented with a citation for distinguished achievement in horticulture at the Washington State Federation of Garden Clubs convention. The citation reads for "outstanding efforts and activities in hybridizing of Median and Dwarf Iris." A check of \$100 accompanied the award; that should help to pay for part of the cross country vacation the Browns are taking this winter.

The congratulations of the Society also are due to George W. Dubes, of Sioux City, Iowa. Mr. Dubes received the Iowa State Horticulture Society's Certificate of Merit Award at the state meeting of the Society at Iowa State University October 23. Mr. Dubes has been active in the American Iris Society, attending many of the national meetings, and having one of the host gardens at the Sioux City convention.

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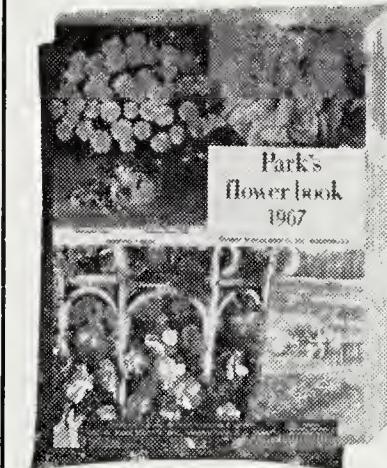


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The Iris Clinic

Few BULLETIN articles have drawn so much mail to the editor as that of Revia Abbott's "Nematode Control on Irises," in the July BULLETIN. Many of our readers would like to have us publish the idea and the experiences of the larger growers on the control of such problems as root rot, crown rot, dry rot and nematodes. We will welcome on BULLETIN pages your theories and experiences, for this is the kind of material many of our readers seek.

We did write a number of our larger and more successful growers, and received a large number of answers, part of which are reviewed here.

Wilma Vallette writes that she always soaks new rhizomes for a half hour in Captan or Natriphene before planting, and that she uses a solution of either to pour over the backs of the fans of less well established plants where the liquid will run over the area of the new increase. This she tries to do in the fall before the first freeze.

Maynard Knopf observes that root rot comes with long, wet spells, when the soil is saturated with moisture and there is little or no aeration, and that the best method of prevention is to plant on ridges or raised beds to keep above water saturation. He believes that crown rot is the mustard seed fungus, and that one place he lived, it was necessary to sterilize the entire area with methyl bromide. (Here in the midwest, we often scratch the soil away from the top of the rhizome and let the sun do the work.) His advice to disinfect every new rhizome or other plant coming into the garden is good; your county agricultural agent can give you the specific formula for this purpose.

Maynard observes, correctly, that there are all kinds of nematodes, some beneficial and some not. Because of the commercial nature of his garden, he does not plant a new rhizome without inspection by the agricultural department.

Keith Keppel writes that root rot seldom is of epidemic proportions and that plants left in the situation often recover if the soil is allowed to dry and have drainage problems corrected as soon as possible. As for crown rot, he regularly dusts all rhizomes with terraclor dust (10% strength) and this seems to have eliminated the difficulty. For nematode control, his procedure is to root trim, flush with rhizome, all incoming irises from suspected sources. Dirt is washed from the rhizomes thus clipped. Some growers use a formaldehyde or clorox soak after treatment; if so, the plants should be rinsed after treating. He observes that once nematodes are well established in the garden, the best treatment is fumigating with methyl bromide if you can do so without killing adjacent trees and shrubs. Extreme care should be used in puncturing the pressurized cans because of the toxicity of the material. The soil in the area should be moist, well worked and covered with "tarp"; the tarp may be removed after 24 hours, ground reworked to air, and rhizomes planted the next day if desired.

We are impressed with the cultural directions that Schreiner's send out with their iris orders. It is too long to use in this BULLETIN, but one of these days we are going to use it for a model in writing an article on cultural directions for the BULLETIN.

None of those who wrote make any pretense of having the final answers, and they all point up the need for research. Fortunately, many of the

problems we face also are associated with money crops, and the federal government supports research programs on these. Mr. Parker, chairman of the Scientific committee, is aware of the possibilities of borrowing from this kind of research, and we can expect some good things to come from the committee.

Your editor was struck with the willingness of the "big" growers to answer, if they are asked, specific questions. So ask THE IRIS CLINIC; we will try to get the answers.

From the Editor's Desk

The current issue of the BULLETIN places considerable emphasis on median dwarf bearded irises, and we plan to, from time to time, issue BULLETINS with emphasis on the other sections or classes of the realm of irises. Such issues call for prodigious effort, and well coordinated planning, and the best in writing and experience of a great many people. Plans are on the board for a tall bearded issue devoted to the historical approach to the development of our present day tall bearded, with emphasis on the component parts of the breeding program which has brought them about. Plans also are on the board for a plicata issue, and some articles are beginning to come in, which lead us to believe that this dream can become a reality. The spuria people have been approached to get material organized and written for an issue on that section, and overtures have been made to the Louisiana and Siberian groups; and as we can assay the possibilities of this type of BULLETIN, we will begin to correspond with irisarians of other sections and with the species group. But we must warn that such BULLETINS are not built overnight; they call for careful organization and planning.

Melba Hamblen does many things for the Society, and one of the many fine things she has done is to take out a research membership. In a world where there are more and more people and an increasing call for soil productivity, with all of its attendant problems, there perhaps are few better investments than in research. Thank you very much, Melba and Jim.

Discovered that the Vallettes celebrated their golden wedding anniversary in July. Congratulations, and many more anniversaries.

Note that the New Mexico Iris Society has established a scholarship in botany at the University of New Mexico.

We have received a check of \$20.00 from the Northwest Median Society for the Scientific Research Fund. As often has been noted, in our kind of world, contributions to this fund are of superlative worth; and in every phase of our growingly complex life, answers must be sought by searching for them with scientific exploration.

We have been busy finishing up on the BULLETIN and starting the proofing and typing of the Registrations and Introductions for 1966. Kay tells me that the last number issued for the year is 66-749; imagine if you can three large ring notebooks with applications for registrations, each notebook about three inches in width. Add to those the checking for and recording of introductions, and there is quite a problem in logistics. As soon as these jobs are over, have to turn our attention to the ballots.

With this issue we again are beginning to give credit for photos, where it is possible. No reason for the omission before, except that something had to give way for the recuperation of the eyes.



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7. **Award cards.** Same as award ribbon (5) except on card 2 cents each
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 - C. Best specimen of show, Junior Division 65 cents each
 - D. Best arrangement of show, Junior Division 65 cents each
 - E. Horticultural sweepstakes, Junior Division 65 cents each
 - F. Artistic sweepstakes, Junior Division 65 cents each
10. **Section rosette.** Midway in size between 8 and 9. May be awarded to best specimen in each section (tall bearded, border, miniature tall bearded, spuria, Siberian, Louisiana, Japanese, etc.) 75 cents each
11. **Silver or Bronze medals.** Not engraved. Orders for these medals should accompany show report sent to the Chairman, Exhibitions Committee. Supplied without cost to AIS Affiliates 3.50 each
12. **Seedling ballots.** One should be given to each AIS judge who visits the show; to be used by judges in voting for the Exhibition Certificate No charge
13. **Report and application for award.** One set in triplicate for a show. One copy to be mailed immediately after the show to Chairman, Exhibitions Committee; one copy to be mailed to the RVP; and the third copy to be retained for the club files.

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NEW YORK
REGISTRATIONS
AND INTRODUCTIONS
IN 1966

Compiled by
KAY N. NEGUS
J. ARTHUR NELSON
Registrar-Recorder



BULLETIN of the
AMERICAN IRIS SOCIETY

JANUARY 1967
NUMBER 184

PRINTED IN TWO SECTIONS • SECTION 2

A quarterly published by The American Iris Society,
Publishing office at 2237 Tower Grove Boulevard, St. Louis, Mo., 63110
Second-class postage paid at St. Louis, Mo.
and at additional mailing offices.

HOW TO REGISTER AND INTRODUCE AN IRIS

These instructions apply to the registration of all classes of irises *except bulbous irises.*

1. Write to our Registrar-Recorder, J. Arthur Nelson, 3131 North 58th St., Omaha, Nebr. 68104, for a registration blank, enclosing check for the registration fee payable to the American Iris Society.

2. The registration fee is \$2.00 for each iris. For each transfer of a name from one iris to another the fee is \$4.00.

3. Select a name which has not been previously registered, which can be submitted for approval when you write for the blank. If you will first look in the Check Lists and the annual reports of the Registrar since 1959 to see if the name has been previously registered, you will save time for yourself and for the Registrar. Please also suggest an alternate name. Mr. Nelson will hold an approved name for a short time to enable you to complete the blank and send it back, but *a name is not registered until the registration blank is filed and approved by him.* A registration certificate will then be sent to you.

4. Names should follow the rules established by the International Horticultural Code, and the following names shall not be admissible:

- a. Names of living persons without the written permission of that person.
- b. Names of persons including forms of address. (That is, JANE DOE, not MRS. JANE DOE.)
- c. Names including numerals or symbols.
- d. Names beginning with the articles "a" and "the" or their equivalents in other languages unless required by linguistic custom.
- e. Abbreviations unless required by linguistic custom.
- f. Latin names or latinized forms. However, the AIS custom of using part of the Latin name of a species, namely, the specific epithet as part of the cultivar name when this seems appropriate, shall be continued.
- g. Use of trademarks or copyrighted names unless previously in common use.
- h. A slight variation of a previously registered name.
- i. Names containing more than three words.
- j. Names which exaggerate or may become inaccurate. (e.g., HEAVIEST LACE, TALLEST BLACK.)

5. Previously registered names may be re-used provided (a) the original registration has not been introduced or distributed by name, (b) does not appear by name in later parentage registrations, and (c) the new registrant furnishes the Registrar with a written statement of permission from the previous registrant.

6. Names will not be released as obsolete unless there is proof that no stock now exists and that the iris was never used as a parent.

7. Make parentage records explicit, and include seedling numbers when possible. Color descriptions should be concise, and the designation, conforming to the latest Iris Color Classification of the Committee on Exhibitions, should be included.

8. Classifications of bearded irises will conform to the rules outlined in the January 1958 BULLETIN, pages 9-17. Height and season of bloom are most important. These classifications may be summarized as follows:

1) Miniature Dwarf Bearded (MDB)	Less than 10"—early blooms.
2) Standard Dwarf Bearded (SDB)	10" to 15".
3) Intermediates (IB)	15" to 28"—hybrids of dwarf x TB— bloom between dwarfs and TBs. (Table irises.) 15" to 28"—slender, flexu- ous stalks, with small flowers.
4) Miniature Tall Bearded (MTB)	15" to 28"—shorter irises of TB parent- age.
5) Border (BB)	28" or more.
6) Tall Bearded (TB)	

9. **Introduction.** An introduction is an offering for sale to the public. Catalogs, printed lists, and advertisements in the American Iris Society BULLETIN, are accept-

able mediums of introduction. It is a requisite for the awards of the Society above that of High Commendation. A variety is not eligible for these awards until one year after it has been recorded with Mr. Nelson. Send him a copy of the catalog, list, or advertisement by first-class mail and he will acknowledge that fact that it has been recorded.

THE REGISTRATION RECORD

The data in each registration record are in the following order:

1. Variety name, in capital letters.
2. Name of originator and year of registration.
3. (Sometimes omitted.) Number by which the seedling was identified by the originator before selection and registration of name.
4. Brief description of the plant:
 - a) Group classification, as TB (a tall bearded iris). Symbols for other bearded classes are included in the list of abbreviations below.
 - b) Height—to tip of terminal bloom on a typical bloomstalk.
 - c) Season of bloom symbol—E for early, EE for extra early, VEE for extremely early, M for midseason, L for late, VL for very late.
 - d) Color symbols (see table of classification of color patterns below).
5. Description of the bloom.
6. Parentage of the variety. The name (or parentage) of the pod parent is stated first—before ×: Pod Parent × Pollen Parent. In the parentages of the pod parent and the pollen parent, the small x is used—see ACAPULCO on the facing page.
7. Any award the iris may have received.
8. Name of introducer and year of introduction.

The term Wisley Trials in the record of certain English varieties means that the iris has been placed in the Wisley test garden of the Royal Horticultural Society.

The addresses of originators and introducers may be found on the back pages.

CLASSIFICATION OF COLOR PATTERNS

Predominating and governing color	Selfs	Plicatas	Bitones	Bicolors	Blends
White	W1	W2	W3	W4	W5
Violet	V1	V2	V3	V4	V5
Blue	B1	B2	B3	B4	B5
Green	G1	G2	G3	G4	G5
Yellow	Y1	Y2	Y3	Y4	Y5
Orange	O1	O2	O3	O4	O5
Red	R1	R2	R3	R4	R5
Black (Niger) . .	N1	N2	N3	N4	N5

The background color of the standards determines the color classification. Two color symbols used together designate a mixed color effect, for example, VB for violet blue. Letters not among those in the table that may follow the numeral: P for pale; L, light; F, full; D, dark; DD, very dark; cm, conspicuous marking.

ABBREVIATIONS

BB	Border bearded iris	MTB	Miniature tall bearded (table) iris
BIS	British Iris Society	R	Registered
F	Falls (sepals) of flower	RE, re	Reblooming (remontant) iris
Gard.	Garden(s)	S	Standards (erect petals)
HC	High Commendation Award	SDB	Standard dwarf bearded iris
IB	Intermediate bearded iris	Sdlg.	Seedling
MDB	Miniature dwarf bearded iris	TB	Tall bearded iris

INTRODUCTIONS AND REGISTRATIONS IN 1966

Corrections in Earlier Registrations

ACORN (Hooker, TB, R. 1965). Change of name. (Registered as "Brown Acorn").

BLUE DUET (R. G. Smith, TB re, R. 1965). Correction of spelling of parentage: Lacy Lu, not Lucy Lu.

BORDER QUEEN (Valette, 1959). Change of classification from BB and AR to IB.

BROWN ACORN (Hooker, TB, R. 1965). Change of name to ACORN.

BROWN CROWN (Welch, R. 1962). Change of classification from BB to MTB.

CERAMIC BLUE (Mayberry, TB, R. 1965). Correction of parentage: Lady Bluebeard X Marriott. Beard tipped blue.

CORAL WAVE (Tompkins, TB, R. 1965). Correction of parentage from High Life to High Note.

DEEP LAVENDER (Welch, R. 1962). Change of classification from BB to SDB.

DISCOTHEQUE (Hohn, TB, R. 1965). Correction in spelling. (Registered as "Discothesque").

IRISH CHARMER (Cora May Pickard, TB, R. 1965). Change of name. (Registered as "Irish Charm").

JADE (Abell, R. 1961). Change in classification from AR to TB.

JUST SO (Z. G. Benson, R. 1962). Correction of classification from IB to SDB.

LITTLE GREMLIN (Hall, 1962). Change of classification from SDB to BB.

MADEIRA LACE (Muhlestein, TB, R. 1965). Correction in spelling. (Registered as "Madera Lace").

MAUDIE MARIE (Tompkins, TB, R. 1965). Correction in spelling. (Registered as "Maude Marie").

MAYOBER (Rundlett, R. 1959). Change of classification from TB to TB remontant.

MISS MAGIC (Plough, TB, R. 1965). Correction of parentage. Striped Butterfly X (Courtesy x Inky Bluebeard).

MONTANA MAID (Knopp, TB, R. 1965). Correction of record.

MOON ROCKET (Rundlett, TB re, R. 1957). Correction of spelling from Moor Rocket in 1965 introduction.

NINEVEH (Keppel, TB, R. 1965). Correction of spelling. (Registered as "Ninevah").

NYLON CHARM (Doriot-Reath, SDB, R. 1962). Same clone as "Nylon Ruffles".

PINK MIDGET (Adelaide Peterson, R. 1962). Change of classification from MDB to IB of variable height.

PINK PUPPET (Hite, TB, R. 1965). Name changed from "Pink Parfait".

PIXIE PASTEL (H. Stevens, SDB, R. 1965). Change of parentage to: Sdlg. 60-2 (TB x pumila) X Green Spot.

POST SCRIPT (Tompkins, TB, R. 1965). Correction of parentage to: (Helen Collingwood x Mystic Melody) X Madame Butterfly. Is sib to Trudy.

RASPBERRY PARFAIT (C. E. McCaughey, R. 1963). Change in classification from TB to BB; height 28".

SERENDIPITY (Kamps, TB, R. 1965). Name changed to "Shibui".

SHIBUI (Kamps, TB, R. 1965). Name changed from "Serendipity".

SING AGAIN (Plough, TB, R. 1965). Correction of sdlg. number to 61-221-4.

SPRING PRELUDE (C. Jonas, R. 1957). Change of classification from BB to IB.

SUNDAY'S CHILD (J. Nelson, R. 1959). Change of classification from TB to BB; height 26" to 30".

TWICE BLESSED (D. Dennis, R. 1965). Change of classification from IB to SDB.

VIOLET VIRGO (Rundlett, R. 1963). Change of classification from TB to TB remontant.

WILD PEACOCK (Muhlestein, R. 1964, BB; 1965, IB). Change of classification to TB.

WIZARD (Ghio, BB, R. 1965). Correction of spelling in parentage to Tiffanja.

The 1966 Introductions and Registrations

Records of 1966 introductions registered in previous years are indicated with a *, for example *ACORN. A change in name or release of name is indicated with a #.

ABSTRAKTA (Dr. Peter Werckmeister, R. 1966). SDB, 12", E, W5cm. S. greyish white; F. white with brown, violet and olive stripes and veins. Pogoregelianeglecta X Serbian pumila #25, blue.

*ACORN (L. Hooker, TB, R. 1965). Tell's 1966.

ADAMSRED (Tom Craig, R. 1966). Sdlg. 66 R 1. TB re, 30", EE-M, R1D. Rubient self. Adam X Edenite. Craig 1966.

ADDIS ABABA (Leo T. Clark, R. 1966). Arilbred, 30", EM, OR5Dcm. S. deep to medium brown with reddish brown undertones; F. dark brown with burnt sienna and red undertones; large dark signals. 55-9-A X Iman Salah x GM18. Sierra View 1966.

ADELE STEARNS (E. & A. Watkins, R. 1966). Sdlg. 61-11-a. TB, 30", M, RV1L. Light rose-purple self (Wilson 533/2), ruffled; tangerine beard. Sdlg. 51-23 ((46-136 x 46-146) x Hi Time)) X May Hall. Fairmount Gardens 1966.

AFIRE (Tom Craig, R. 1966). Sdlg. 63-0-24. TB, 36", M, OR5cm. Tanagra blended java brown at haft and most of F., washed brilliant violet. Adam X ((Poway x (Bang x Savage x Molten))).

*ALADDIN'S FIRE (Branch, TB, R. 1964). Robert Young 1966.

*ALASKAN CROWN (J. Nelson, TB, R. 1964). Cooley's 1966.

ALASKAN SUNSET (Gordon Plough, R. 1966). Sdlg. 62-125-12. TB, 37", ML, 05P. S. center area warm pink (Wilson 14/3) blending to Indian yellow (6/2) on edges; F. pink glow on hafts, blends to Canary yellow (2/1.5); center shows texture veining with near white area; tangerine, marigold orange beard. ((Char-Maize x Gold Ruffles) x Green Quest)) X Lemon Lilt.

AL DI LA (David Lorenz, R. 1966). Sdlg. 64-2-B. TB, 34", E-M, Y05L. Skillful blend of apricot, peach, gold and orange; wide, ruffled falls. Real Delight X Waxing Moon.

ALLEGORY (Walker Ferguson, R. 1966). Sdlg. 65-17. Spuria, 44", M, B4Ycm. S. blue-lavender; F. bright yellow with narrow ruffled blue border. Moon by Day X Ruffled Moth. HC 1966. Ferguson 1966.

ALPINE HALO (Alta Brown, R. 1966). Sdlg. H 956-5. IB, 18", E, VB4Y. S. lavender-blue; F. chartreuse-yellow; brown beard, tipped blue. M 278-6 (Green Halo x Snow Elf) X Ib-Mac.

*AMBER ETCHING (Doris Foster, Arilbred, R. 1964). Tell's 1966.

AMBULANCE (Tim Craig, R. 1966). Sdlg. 92. SDB, 13", EE, R5D. S. peony red; F. dark rose ebony with light rose ebony border; chrome yellow beard. R6-5 X Black Baby. Craig 1966.

*ANGEL BRIGHT (Rees, TB, R. 1965). Imperial Gardens 1966.

ANGEL CAKE (Mabel Framke, R. 1966). Sdlg. 64-165B. TB, 36", ML, R1P. White self flushed pink; pale pink blend. (Cameo Coral x Apple Valley) X (Herald Angel x High Note). Fleur de Lis 1966.

- ANGEL LACE (Luella Noyd, R. 1966). Sdlg. N63-33-6. TB, 32", E-L, W4Y. S. lacy white with yellow at base; F. mustard yellow; beard same as F. Sdlg. N59-107-12: Green Tinge x ((N6-75: Pinnacle x (Minnie Colquitt x Melitza) x Gaylord)) X N7-89 (Green Boy x involved pollen parentage as above).
- ANNABEL LEE (Schreiner's, R. 1966). Sdlg. R 106-8. TB, 40", L-VL, RV1L. Light rose-toned pink; bright geranium-red beard. L 266-1((I 90: Pink Tower x A 106) x Vanity Fair)) X Pretty Carol. Schreiner's 1966.
- ANNIKINS (Beatrice A. Warburton, R. 1966). Sdlg. 181 EG-1. IB, 22", M, VBLF. Deep blue-purple self with matching beard; aphylla branching. Chivalry X I. aphylla.
- APERITIF (Gordon Plough, R. 1966). Sdlg. 62-25-41. TB, 40", EM, YLP. S. slightly lighter than F.; F. straw-yellow (Wilson 604/3) with a pinkish glow; beard tangerine-apricot with lighter tip. Java Dove X ((Pin-up Girl x Baby's Bonnet) x Whole Cloth)).
- APOLLO'S GIFT (Romona Blodgett, R. 1966). Sdlg. 63-33. TB, 34", M-L, YLF. Aureolin yellow (Wilson 3/1) self; laced and ruffled. Illini Gold X Rainbow Gold. HC 1966.
- APRICOT ROYAL (Bennett Jones, R. 1966). Sdlg. 684-1. TB, 38", EM, YOLL. Apricot self; tangerine beard. Sdlg. 591-1 (Spanish Affair x Marilyn C) X Shoop 60-11.
- *APRIL ACCENT (A. Brown, MDB, R. 1965). Brown's Iris Gardens 1966.
- *APRIL VAR (A. Brown, MDB, R. 1965). Brown's Iris Gardens 1966.
- ARABECA (Maynard Knopf, R. 1966). Sdlg. 64-14. TB, 36", M-L, Y40cm. S. old gold; F. garnet brown with purple infusion. Melodrama X Campbell Copper.
- ARBITRATOR (Walker Ferguson, R. 1966). Sdlg. 65-14. Spuria, 46", E, V4Ycm. S. lavender-purple with lighter lines; F. bright yellow marked with lavender-purple. Sdlg. 63-H X Contradiction. Ferguson 1966.
- *ARC ABOVE (Fothergill, TB, R. 1964). Tell's 1966.
- *ARCTIC BREEZE (A. Brown, IB, R. 1965). Brown's Iris Gardens 1966.
- *ARCTIC MOOD (A. Brown, IB, R. 1965). Brown's Iris Gardens 1966.
- *ARCTIC NIGHT (A. Brown, IB, R. 1965). Brown's Iris Gardens 1966.
- ARPEGE (Schreiner's, R. 1966). Sdlg. V 662-B. TB, 36", E, B4V. S. very light blue, closed, smooth; F. dark blue-violet, semiflaring. Rococo X Emma Cook. Schreiner's 1966.
- *AUDA (Schmelzer, TB, R. 1965). Schmelzer's Gardens 1966.
- *AUTUMN DAYS (D. Lyon, TB, R. 1963). Robert Young 1966.
- AZTEC GOLD (L. F. Randolph, R. 1966). Sdlg. 57322-1. TB, 36", M, YLF. Medium yellow self. 53263-1 (Gypsy x Ola Kala) x Gypsy Classic X 54178-3 (Dolly Varden x seedlings). Randolph 1966.
- AZURE DOME (Paul Cook by Emma Cook, R. 1966). Sdlg. 3764. TB,

38", M, V4W. S. wisteria violet, deepening to soft bluish violet in center; F. white. Sldg. 11657 (imbricata line) X Ecstatic Night.

*AZURE LACE (Plough, TB, R. 1965). Eden Road 1966.

*AZURE TRACERY (Witt, BB, R. 1962). Northwest Hybridizers 1966.

*BABBLING BROOK (Keppel, TB, R. 1965). Keppel 1966.

BABESAN (Tom Craig, R. 1966). Sdlg. 66.0 1. BB, 18", E-ML, GY3cm. S. popcorn yellow with chartreuse-green influence; F. popcorn yellow with onco pattern and wash. Char-Maize X Kalifa Baltis. Craig 1966.

BABY SHOWER (Joseph Ghio, R. 1966). Sdlg. 62-34B. BB, 26", M-L, WIW. Pure white self including beard. First Courtship X Poet's Dream.

BACCARAT (Larry Gaultier, R. 1966). Sdlg. 63-260. TB, 36", L, 05D. S. blend of brown, amber and light purple; F. blend of darker coloring, all petals edged brown; brown hafts; tangerine beard. Claudia Rene X Glittering Amber.

BALDWIN'S ACE (Tim Craig, R. 1966). Sdlg. 5-237. IB, 24", EE, VIID. Sable black-violet self. KB2 (Steeplechase x Tom's Blue) X Black Baby. Craig 1966.

BALLKLEID (Dr. Hertha van Nes, R. 1966). Sdlg. P-105. SDB, 12", E, W4Y. S. white; F. yellow, with lighter border; beard white with yellow tips. Green Spot X unknown.

BANDED BRONZE (Rex Brown, R. 1966). Sdlg. 61-31-3. TB, 36", EML, Y05Dcm. S. bronze; F. golden-bronze with $\frac{1}{2}$ " band of dark brown; bronze beard. Serene Serenade X Inca Chief.

BANG TAIL (George Thompson for Schreiner's, 1966). Sdlg. S 228-A. TB, 36", EM, OR1D. Mahogany-red self. Jungle Fires X O 136 ((K 124-A (Unknown x Defiance))).

BAROQUE (Bryce Phenis, R. 1966). Sdlg. 64-23-F. TB, 36", M, 05F. S. burnt orange, flushed pink; F. burnt orange; coral beard; brown smooth hafts. Claudia Rene X Celestial Glory.

BAROQUE PEARL (C. and K. Smith, R. 1966). Sdlg. 64-27. TB, 32", EML, WIY. S. white with pearl and cream infusion; F. same with yellow hafts and beard. Wisdom X Sarah Averell. HC 1966.

BAY AREA (Maynard Knopf, R. 1966). Sdlg. 64-7. TB, 36", E-M, Y4W. S. lemon-yellow; F. cream-white. (Wild Blue Yonder x Glittering Gold) X (Mission Trails x sib).

BAYBERRY CANDLE (Caroline DeForest, R. 1966). Sdlg. 66-19. TB, 36", M, Y3cm. S. chartreuse to lime, white inside, and white styles; F. golden olive-green, deeper center, brown beard. (Dawn Crest x 58-38) X (Mary Randall x Golden Chance).

BAY VIEW (Joseph Ghio, R. 1966). Sdlg. 62-101T. TB, 30", L, BLF. Hyacinth-blue self including beard. Melissa X First Courtship.

BEAU PAM (Tim Craig, R. 1966). Sdlg. AgI. Oncobred, 29", EML, VR5L. Lilac-pink blend. Adam X Kalifa Gulnare. Craig 1966.

BEAUTY SECRET (Neva Sexton, R. 1966). Sdlg. 31-61. TB, E, 36", Y01L. Bright apricot self. (Top Flight x Techny Chimes) X

pink sdlg. Sexton 1966.

BECKY (Margaret Beck, R. 1966). Sdlg. 62-15. TB, 40", M, YLF. Bright yellow self; orange beard; ruffled. Truly Yours X (Ola Kala x 6044-12).

BEEZELBUB'S CHILD (Willard Rogers, R. 1966). Sdlg. 26301. SDB, 11", M, RLD. Dark red self with purple beard. (Paradise Pink x Contentment) X Pagan Midget. HC 1966.

*BESSIE B. (Wayne McConnell, TB, R. 1964). Wishing Well 1966.

BEST REGARDS (Eva Smith, R. 1966). Sdlg. 64-107. TB, 36", EM, WLW. Pure white self; lemon yellow beard. (Limelight x Inca Chief) X (Celestial Blue x Fluted Copper).

*BETTERYET (Hazzard, Jap, R. 1965). Hazzard 1966.

*BETTY MILLS (Seigling, TB, R. 1963). Dow Garden 1966.

BEWITCHED (James S. Tucker, R. 1966). Sdlg. 214B. TB, 35", EM, W2B. S. white with dark blue border; F. same. Full Circle X Rococo.

*BIG BLACK BUMBLEBEE (Danielson, Arilbred, R. 1965). Mount Clare 1966.

BIG GIANT (Tim Craig, R. 1966). Sdlg. Sl-196. TB, 29", M, VLD. Royal purple self. Mary McClellan X Willie 7-R-1. Craig 1966.

BIG JIM (James S. Tucker, R. 1966). Sdlg. 16A. TB, 35", ML, BVLD. Dark blue-purple self. 917A (Pierre Menard x South Pacific) X 950E (South Pacific x Muted Music).

*BIT O'PARADISE (Muhlestein, BB, R. 1965). Tell's 1966.

BIXBY (Wilma Greenlee, R. 1966). IB, 18", E, VR3. Wine-red bitone; F. redder than S. Quechee X (Queen's Velvet x 59-4). Greenlee 1966.

BLACK BERRY (Tim Craig, R. 1966). Sdlg. 158-R5. TB, 22", M, VLD. Fluorite violet self. Black Hills X (Mary McClellan x Black Taffeta). Craig 1966.

BLACK CANYON (E. W. Smith, R. 1966). Sdlg. 61-ES-28-1. TB, 30-34", M, VLD. Black-violet self; very dark purple beard. Sable X Chivalry.

*BLACK DUET (Raymond Smith, TB & re, R. 1965). R. Smith 1966.

BLACKSMITH (Charles Wm. Voris, R. 1966). Sdlg. ED 61-4. TB, 30-32", M-L, VLD. Very deep black-purple self. Tabu X Edenite.

*BLACK SULTAN (Austin, TB, R. 1965). Rainbow Gardens 1966.

BLAUER ZWEIKLANG (Dr. Hertha van Nes, R. 1966). Sdlg. P-1005. MDB, 8-10", EE re, B4Vcm. S. brilliant light blue; F. dark violet with light blue border; white beard. Unknown median x unknown.

*BLEW DOWN (Hazzard, Jap, R. 1965). Hazzard 1966.

*BLISS (Zurbrigg, TB, R. 1965). Avonbank 1966.

*BLOND VIRGIN (Voris, TB, R. 1965). Voris 1966.

BLOODSPOT (Tim Craig, R. 1966). Sdlg. 240 CRS 3. SDB, 10½", EE, R1Dcm. Arabian red self with zanzibar spot pattern on falls. KR 14 X Little Darkie.

- *BLUE ACCENT (Olson, TB, R. 1962). Marvin Olson 1966.
- *BLUEADIAN (Walton, TB, R. 1965). Loma Linda 1966.
- *BLUE BAYOU (Plough, TB, R. 1965). Eden Road 1966.
- BLUEBEARD'S CASTLE (Gordon Plough, R. 1966). Sdlg. 62-18-43. TB, 44", EM, RVLD. S. more vibrant tone than royal purple (Wilson 834/2), slightly lighter than falls; F. same with clean hafts, lightly laced; Moorish blue beard. Granada X (Tistops x Allegiance).
- *BLUEBELL LANE (Caroline DeForest, TB, R. 1964). Irisnoll 1966.
- BLUE BERET (Earl Roberts, R. 1966). Sdlg. 13R63. MDB, 6", VE, B4RVcm. S. bright medium blue; F. purple, edged lighter on lower half; beard light blue. Stint X Stint. HC 1966.
- BLUE BONANZA (William T. Bledsoe, R. 1966). Sdlg. 63-37. TB, 40", E-M, BV3FD. S. moorish blue (Wilson 739/2); F. Victorian violet (738). South Pacific X Dorothy King.
- *BLUE BOUNTY (Pickard, Sib, R. 1965). Pickard 1966.
- BLUE CANARY (Mrs. J. R. Hamblen, R. 1966). Sdlg. M63-8C. SDB, M-L, 10", Y3PL. S. sulphur yellow (Wilson 1/3); F. canary yellow (2/2); beard Gentian blue. Grace Note X Grace Note sib. HC 1966.
- BLUE CAPERS (Alta Brown, R. 1966). Sdlg. D 379. MDB, 4", VE, Blcm. S. sea blue; F. sea blue with wash of rose-purple over center; white beard. Cute Capers X Rosy Carpet.
- BLUE CHIFFON (Schreiner's, R. 1966). Sdlg. T 779-B. TB, 41" EM, BLL. Pure light blue self; clear, crystalline color. Eleanor's Pride X Salem. Schreiner's 1966.
- BLUE DUCHESS (Kelway & Son, R. 1966). Sdlg. 694. TB, 38", M, BLL. Light blue self. Jane Phillips X Blue Cameo.
- BLUE HALO (L. F. Randolph, R. 1966). Sdlg. 59212-2. TB, 34", M, BLL. S. light blue; F. light blue with deeper blue center. (Blue sib of Serene White x Courtesy) X Wide World.
- *BLUE HONEY (Swearengen, Jap, R. 1964). Swearengen, 1966.
- BLUE MINK (Mrs. J. R. Hamblen, R. 1966). Sdlg. 639F. TB, 40", E-L, BV5Fcm. Slate blue-violet blend with minute gold edge. Lilac Champagne X 60-141 (involved pink x blue x Melodrama).
- BLUE MOSS (Bennett C. Jones, R. 1966). Sdlg. M85-1. SDB, 14", M, B4Gcm. S. medium blue; F. olive, washed blue at edges. Doriot sdlg. (tall blue-purple x Red Amethyst) X Sib. HC 1966.
- *BLUE MYSTIQUE (Fail, TB, R. 1965). Hilda's Iris Garden 1966.
- *BLUE OLYMPICS (Rex Brown, TB, R. 1965). Brown's Iris Gardens 1966.
- BLUE PANSY (Kelway & Son, R. 1966). Sdlg. 708. TB, 40", M, VBLF. Deep violet-blue self. Black Hills X Knight Valiant.
- BLUE SPIDERWEB (Walker Ferguson, R. 1966). Sdlg. 65-6. Spuria, 40", E-M, B3cm. S. medium blue with lighter lines; F. light blue, heavily lined dark blue. 63-F (Blooming Fool x Ruffled Moth) X Premier. Ferguson 1966.
- BLUE STREAMLINE (W. A. Payne, R. 1966). Sdlg. 1268. Jap, 42", EM, V5cm. Blends from roslyn blue to light violet; darker

halo and veins; center hyacinth blue. Sky and Water X Cobra Dancer.

BLUE SUNUP (Les Peterson, R. 1966). Sdlg. LP 63-1000. TB, 34", ML, Y4B. S. pale steel-gray tinted yellow; F. powder blue, narrow band of silver tinsel on both S. and F.; throat, styles and beard primrose-yellow. Eleanor's Pride X Orange Pagoda.

BLUE VOID (Charles Wm. Voris, R. 1966). Sdlg. AZ1C 65-2. TB, 34-36", M, VB1D. Deep-blue self. Ice Cavern X Azurite.

BOBBY GENE (Mrs. T. C. Lamoreaux, R. 1966). Sdlg. L-62-M3. TB, 37", M-L, RV1D. Blackish red-violet self; small area of brown at heavy dark bronze beard. Miogem X unknown.

BONE CHINA (Tell Muhlestein, R. 1966). Sdlg. 60-5. BB, 28", M, Y20. S. ivory blushed cinnamon; F. ivory, bordered cinnamon. Lovelace X 52-33 (Fancy Feather x Blue Rim). HC 1966.

*BONGO (A. Brown, SDB, R. 1965). Brown's Iris Gardens 1966.

*BONNIE KAY (Wolff-Hildenbrandt, BB, R. 1965). Hildenbrandt 1966.

BORDER DUETTE (R. G. Smith, R. 1966). Sdlg. D7E. BB, 26", E & re, Y1F. Brilliant yellow self (Nickerson 5Y 9/9). (Double Date x Fall Primrose) X sib to August Gold. Roberts 1966.

*BORDER ROSE (A. Brown, BB, R. 1965). Brown's Iris Gardens 1966.

BOTANY BAY (Bennett Jones, R. 1966). Sdlg. B10-2. BB, 25", M B1F. Lobelia blue (Wilson 41) self. Bob's Blue X Little Dude. HC 1966.

BRANNIGAN (J. D. Taylor, R. 1966). Sdlg. E.112 A/3. SDB, 13", M, V1D. S. violet; F. violet with darker velvet overlay. (Clear Sailing x Sulina) x sib X (((Sylvia Murray x Sky Song) x Welch H.503) x Green Spot))). Highly Commended 1966, Wisley.

BRAZEN IMAGE (Wilma L. Vallette, R. 1966). TB, 32", M, W4Ycm. S. pure white; F. brassy yellow with 1/8" white edging. Metcalf 657-601 (Queen's Taste x Step Up) X Metcalf M-1591 ((Queen's Taste x Planet) x Snowbonnet)).

BRIDE'S PEARLS (Alta Brown, R. 1966). Sdlg. 60-187-10. BB, 22", M, W1V. White self, lightly tinted orchid; light yellow beard and touch of yellow on edge of haft; very lacy. Sister of Orchid Fringe X self.

BRIGANTINE (C. W. Tompkins, R. 1966). Sdlg. 61-135B. TB, 48", E-VL, V1F. Violet self. Flagship X Mountain Music. Fleur de Lis 1966.

BRIGHT AND BOLD (Clyde Cochran, R. 1966). Sdlg. 773-64. TB, 36-38", E, OY4Rcm. S. butterscotch, closed; F. red with narrow white streaks below beard; hafts butterscotch veined with red; ruffled. 576-63 X Gypsy Lullaby.

BRIGHT BABY (Alta Brown, R. 1966). Sdlg. M 675-6. SDB, 13", E, OY3. S. bright orange-yellow; F. deeper. Rosy Treasure X Arctic Rose.

*BRIGHT BEACON (Peterson, SDB, R. 1962). Old Brook and A. Peterson 1966.

BRIGHT BUTTERFLY (Bennett Jones, R. 1966). Sdlg. 684-4. TB,

34", ML, 04Y. S. Orpiment orange (Wilson 10/3); F. straw yellow (604) blushed orange; tangerine beard; ruffled and laced. 591-1 (Spanish Affair x Marilyn C) X Shoop 60-11.

BRIGHT IMAGE (Margaret Beck, R. 1966). Sdlg. 62-65. TB, 38", M-L, YLF. Dark golden yellow self; heavy orange beard; ruffled. Almond Blossom X Fall Sunshine.

*BRIGHT MOON (Marsh, TB, R. 1965). Marsh 1966.

*BRIGHT 'N FAIR (F. DeForest, TB, R. 1965). Irisnoll 1966.

BRITE SPRITE (W. A. Payne, R. 1966). Sdlg. 1210. Jap, 24", E, V4Wcm. S. purple edged white; F. white veined spectrum violet. Seafury X 651 (246 x 236).

BROAD PACIFIC (Maynard Knopf, R. 1966). Sdlg. 64-47. TB, 34", ML, BlF. Spectrum blue self. 13-A-77 X 13-A-99. HC 1966.

BROCADE SNOWFALL (Gladys I. Roberts, R. 1966). Jap double, 36", M, Wlcm. White with golden yellow signals; slightly ruffled. ((Mahogany x Moni ja-no-Taki) x (Wings-in-the-Dawn x Bettie F. Holmes)) X Sunlit Swan. Roberts 1966.

BROKER'S TIP (James S. Tucker, R. 1966). Sdlg. 132X. TB, 37", ML, W4BV. S. white; F. dark blue-purple. First Violet X Whole Cloth.

BRONZE PENNY (Kelway & Son, R. 1966). Sdlg. 712. TB, 38", ML, 05P. Pale bronze self. Mary Randall X Prairie Sunset.

*BROWN FLARE (Judy, BB, R. 1964). Old Brook 1966.

*BROWNIE SCOUT (Gaulter, BB, R. 1965). Mission Bell 1966.

BRUNELLA (Dr. Hertha van Nes, R. 1966). MDB, 6", EE, Y3cm. S. soft yellow; F. sepia-brown with narrow yellow border; orange yellow beard. Die Braut X pumila hybrid.

BURNING EMBER (Allan Ensminger, R. 1966). Sdlg. 63-19. TB, 34", M-L, RL. Erythrite red self; shrimp red beard. Top Flight X Deep Devotion x (Inspiration x Pink Formal).

BUTTERCUP FAIRY (Donna Simonson, R. 1966). Sdlg. 804. MDB, 6", E, Y3cm. S. ivory and arched; F. yellow, ivory border; beard ivory. Welch sdlg. H504 (Sulina x Cook 1546) X unknown. Northwest Hybridizers 1966.

BUTTERED CORN (Charles Wm. Voris, R. 1966). Sdlg. 65-1. TB, 36", M, Y3FL. S. yellow; F. cream and yellow; pure orange-yellow beard. Whirlaway X Amandine.

BUTTERED POPCORN (Dorothy S. Palmer, R. 1966). Sdlg. 12566A. TB, 37", L, Y4Wcm. S. light yellow; F. white with yellow drippings; matching beard. 4455 B (involved pink and light yellow breeding) X Lilting Melody.

BUTTERFLY BABY (Mrs. Jesse Herd, R. 1966). Sdlg. BFW 59-52. TB, 29", EM, VB1Pcm. Pale violet-blue self; F. lined with pinstripes of deep violet nearly to edges. Butterfly Wings X Castle Rock.

BUTTERFLY WALTZ (Frances Brown, R. 1966). Sdlg. 61-23, TB, 36", M, Y4Vcm. S. rich amber; F. lilac with amber border, very crinkled. Melodrama X Queen's Taste x (Palomino x Memphis Lass). HC 1965. Landsend 1966.

*CADETTE (C. DeForest, TB, R. 1965). Irisnoll 1966.

- *CALICO GOWN (L. Austin, Arilbred, R. 1965). Rainbow 1966.
- *CAMBODIA (Babson, TB, R. 1963). Melrose 1966.
- CAMOUFLAGE (Jean Witt, R. 1966). Sdlg. 63-07-X2. Sib., 30", M, W1Bcm. S. white ground, heavily striped in medium blue; F. white ground, lined and dotted in medium blue, which is intensified over yellow signal; ruffled. Mirza Citronella hybrids X unknown (advance generation hybrid from species of Sibirica group). Northwest Hybridizers 1966.
- CAMPUS DANCER (Erwin Tuller, R. 1966). Sdlg. 18X-78F. TB, 32", M-L, Y1L. Aureolin yellow (Wilson 3/2) self; light olive haft markings and veining; orange beard; six bearded. Dancing Twilight X 6X.
- CANARY CADENCE (Ferris Gaskill, R. 1966). Sdlg. 3264-50. TB, 36", M-L, Y1F. Canary yellow self (Wilson 2) with lighter area below deeper yellow beard; ruffled and laced. Illini Gold X Rainbow Gold. HC 1966.
- CANDY PINK (Tim Craig, R. 1966). Sdlg. 110.2. TB, 40", M, O1P. Salmon pink self. Cloud Cap X Craig Top Pink sdlg.
- CAPE TOWN (Larry Gaulter, R. 1966). Sdlg. 63-145. TB, 38", M, RV5L. S. pale blended beige and rose-lilac; F. deeper blend of beige and rose-lilac; brown-purple hafts; tangerine beard. Claudia Rene X Glittering Amber.
- *CARNIVAL GLASS (B. Jones, BB, R. 1964). Bennett Jones 1966.
- CARTWHEEL (Alta Brown, R. 1966). Sdlg. M 393-14. SDB, 14", E, Y1Pcm. S. pale cream; F. ivory-cream with large round brown spot; cream beard. M 61 (Snow Flurry x Sea O'Blue, pumila) X unknown.
- CASCADE AND BILLOWS (W. A. Payne, R. 1966). Sdlg. 1208. Jap, 38", LM-L, V1Fcm. Ampare purple self with blue halo and veins. Cobra Dancer X Debonair Prince.
- CASCADE CHINA (Gordon Plough, R. 1966). Sdlg. 62-57-27. TB, 36", EML, O1P. S. peach (Wilson 512/3) blending lighter and with more buff tones near edges; F. same with edging and clean maize (607/3) hafts; beard white with each hair tipped tangerine-orange apricot. Sib to Kachina Doll X Cloud Dancer.
- CELEBRATION (Joseph Ghio, R. 1966). Sdlg. 63-153H. TB, 34", E-M, 05. S. melon-apricot; F. apricot-pink-gold-orange blend. (Cream Crest x Graduation Gift) X (Mary Randall x Full Dress). HC 1966.
- *CELESTIAL SWAN (Collie Terrell, TB, R. 1964). Melrose 1966.
- CELESTIE (Mrs. Herman Theurer, R. 1966). Sdlg. T-1-64. TB, 34", EM, W1Y. Creamy white self. Angeline X Celestial Snow.
- CELIA KAY (Beatrice A. Warburton, R. 1966). Sdlg. 63J-1. IB, 20", E-L, V1Lcm. Purple self (Nickerson 5P6/7) with strong brown pattern at shoulders (2.5 YR4). Yellow Dresden X B20FH-1 (Chantilly x Stint).
- CENTENNIAL (Lena Freudenburg, R. 1966). Sdlg. 66-1. TB, 34", EM, Y1F. Clear canary yellow self with white around wide golden beard; ruffled and fluted. Rainbow Gold X Nike.
- *CERAMIC BLUE (Mayberry, TB, R. 1965). Tell's 1966.
- CHAMPAGNE PARTY (Dorothy Palmer, R. 1966). Sdlg. 8266A. TB,

36". LM, YOLL. Very light tan or beige self; wide, ruffled; F. lightly laced. (Fleeta x Melodrama) X Lilting Melody.

CHANTILLY LACE (Nellye Ewing, R. 1966). Sdlg. 48-3. TB, 01Pcm. Light pink self, laced; blue blaze on F. Patty Burns X Oriental Pearl.

*CHARADE (Babson, TB, R. 1964). Melrose 1966.

CHARLES W. (Charles W. Stewart, R. 1966). Sdlg. 60-61A. TB, 36", M-L, YLF. S. brilliant deep yellow; F. same. Olympic Torch X Hindu Wand.

*CHARLIE BROWN (Dunderman, TB, R. 1965). Dunderman 1966.

CHARLOTTE SAWYER (Rosa Belle Van Valkenburgh, R. 1966). Sdlg. 5265-1. TB, 36", M, W1Bcm. S. white; F. white with dark blue border. Emma Cook X Whole Cloth. HC 1966.

#CHARMAINE (Hamblen, TB, R. 1955). Name released to Hamblen.

CHARMAINE (Mrs. J. R. Hamblen, R. 1966). Sdlg. H61-83. TB, 38", E-M, OY4Wcm. S. apricot-yellow, white area in center; F. apricot-yellow, large white area in center; tangerine beard. Coraband X May Melody. HC 1966.

*CHARMING CO-ED (Gaskill, TB, R. 1965). Greenbrier Farm 1966.

CHARM OF EDEN (Gordon Plough, R. 1966). Sdlg. 62-205-17. TB, 36", EML, W40. S. near white; F. delicate pink with azalea pink glow (Wilson 618/4) on each side of beard and down into F. Hafts clean and blend to apricot (609/3) beard shrimp red with color holding fairly well to tip. ((Pin-up Girl x Baby's Bonnet) x (Gay Paree x Blakstock)) X (Cloud Dancer x Melodrama).

CHERRY GARDEN (Bennett Jones, R. 1966). Sdlg. M134-1. SDB, 15", M, VR1D. Pansy purple (Wilson 928/3) self. Captain Gallant X pumila Y9C (Randolph). HC 1966.

*CHERRY MALOTT (Plough, TB, R. 1965). Eden Road 1966.

CHERUB CHOIR (Glenn Corlew, R. 1966). Sdlg. 341-5A. TB, 32", M, Y04Wcm. S. pink; F. warm white, edged pink; white beard changing to tangerine in throat. Signature X One Desire.

CHESTNUT BROWN (Mrs. Thomas Nesmith, R. 1966). TB, 36", R20. Plicata, erythrone red with background of light cinnamon copper, veined and dotted in plicata pattern of rich brown; full yellow beard. Bazaar X Cinnamon Toast. Fairmount 1966.

CHIEF SEALTH (Charles Carper, R. 1966). Sdlg. 62-07. TB, 34", ML, Y4RVcm. S. straw yellow (Wilson 604/1); F. heliotrope (636/2) with tan border; yellow beard; lip heliotrope tone. Caribou Trail X Whole Cloth sdlg.

*CHIEF WARBONNET (C. Hansen, BB, R. 1965). Tell's 1966.

CHILDREN'S HOUR (Clara B. Rees, R. 1966). Sdlg. 63-6. BB, 24-26", M, Y4BV. S. light yellow; F. lavender, yellow at haft. Melodrama X Twenty Grand.

*CHIMADE (Hazzard, Jap, R. 1965). Hazzard 1966.

*CHIMES OF ST. PAUL (Watkins, TB, R. 1965). Fairmount 1966.

CHOCOLATE MAID (W. A. Payne, R. 1966). Sdlg. 1246. Jap, 38", M, V5D. Dull Indian purple flecked light; center taupe brown. 887 (Scherzo x 709) X 892 (Scherzo x 709).

*CHRISTINA LEIGH (Voris, TB, R. 1963). Voris 1966.

CINNAMON MIST (Gordon Plough, R. 1966). Sdlg. 61-30-15. TB, 36", EML, Y20. S. light yellow heavily suffused cinnamon with slightly darker edges; F. heavily sanded dark cinnamon-brown with flash of yellow, then violet next to beard; beard Indian yellow. Lemon Bowl X (My Darling x Copper Halo).

CINQUE PORT (J. D. Taylor, R. 1966). Sdlg. E.97/2. SDB, 13", M, Blcm. S. blue; F. blue with purple patch, yellow hafts, white beard. Green Spot X (Clear Sailing x Sulina) x sib. Highly Commended 1966, Wisley.

CIVIL WAR (Elbert W. Smith, R. 1966). Sdlg. 58-ES-1-2. TB, V5P. Bitone and blend of pale blue and gray; S. more violet; F. more gray. Song of Gold X unknown.

*CLARE LOUISE (Dunderman, MTB, R. 1961). Dunderman 1966.

CLARET (Gladys Wiswell, R. 1966). Siberian, 24", M, R1D. Claret self; gold and white haft. Red Emperor X Dorothea K. Williamson. Fairmount 1966.

CLOUD CAPERS (Schreiner's, R. 1966). Sdlg. T 71-A. TB, 30", EM, W4RV. S. near white with hint of light rose; F. rose-orchid, ruffled. Melodrama X Amethyst Flame. HC 1965. Schreiner's 1966.

CLOUD COUNTRY (C. W. Tompkins, R. 1966). Sdlg. 63-8. TB, 45", EML, W1. White self. Rumbling Thunder X Galilee. Fleur de Lis 1966.

COAST GUARDSMAN (Mrs. Wilma Vallette, R. 1966). TB, 38", E-M, BV1. Blue-violet self with navy blue beard; tipped gold in throat; ruffled. Ruffled Steel X Sweet Alice Lee.

*COCKTAIL TIME (Plough, TB, R. 1965). Eden Road 1966.

*COLORADO NIGHT (F. J. Foster, TB, R. 1965). Mesa Iris 1966.

*COLORAY (Plough, IB, R. 1965). Eden Road 1966.

COLOR CLASSIC (Schreiner's, R. 1966). Sdlg. T 95-1. TB, 33", M, W4B. S. white; F. blue. (Cahokia x Harbor Blue) X Whole Cloth.

COLOUR BRIGHT (Jean Stevens, R. 1966). Sdlg. 1/142. SDB, 12", E, Y4R0cm. S. clear lemon yellow; F. reddish brown with well defined border of lemon. Lilli-Var X Forest Glade.

COLUMBA (Tim Craig, R. 1966). Sdlg. IB 1. IB, 20", EE, V1D. Seville violet self. Bob's Blue X Black Baby.

COME CLOSER (H. H. Henkelman, R. 1966). Sdlg. 61-20. TB, 32", M, O1Pcm. Pink self. (Happy Birthday x Radiation) X Fleeta.

*COME LOOK (Swearengen, Jap, R. 1964). Swearengen 1966.

COMING SUN (Stephana Woodside, R. 1966). TB, 33", EML, Y1F. Bright yellow self. Glittering Cloud X Pink Tea.

CONCERTINA (Steve Moldovan, R. 1966). Sdlg. 66-1. TB, 33", VE, W4V. S. white; F. deep orchid; tangerine beard. 63-47 ((Sorority Girl sib x Whole Cloth) x sib)) X 63-43 sib.

*CONGO QUEEN (Christensen, TB, R. 1963). Eden Road 1966.

*CONNOISSEUR (Hager, Spuria, R. 1965). Melrose 1966.

CONRAD (Tim Craig, R. 1966). Sdlg. R22. IB, 15", EE, R1D. Port

wine self. Craig sdlg. X Black Baby.

CONSTANT LOVE (Alta Brown, R. 1966). Sdlg. 62-22-5. BB, 24", EM, WLV. Self of smoky white with light yellow beard. Flyaway X Lovilia.

*COOL CLASSIQUE (Wayne McConnell, TB, R. 1964). Wishing Well 1966.

COPPER CRAFT (C. & K. Smith, R. 1966). Sdlg. 64-24. TB, 32", M-L, Y05D. Tawny orange (Ridgway 13) to garnet brown (Wilson 00918/1); edges slightly laced. (Mary Randall x Castles in Spain) X Millionaire.

COPPERETTE (W. B. Schortman, R. 1966). Sdlg. 64151. SDB, 12", M-L, Y2R0. Yellow ground plicata with red-orange markings. Copper Halo x plicata sdlg. 7112.

*COPPER MAGIC (E. Smith, TB, R. 1965). Smith's Iris Gardens 1966.

*COQUINA (A. Peterson, IB, R. 1963). Old Brook and A. Peterson 1966.

*CORAL COMMENTS (R. Brown, TB, R. 1965). Brown's Iris Gardens 1966.

CORDUROY AND LACE (Luella Noyd, R. 1966). Sdlg. N63-8-3. TB, 34", M-L, WLR. White self, lacy and corduroy vertical ridges below coral-red beard with white tip. Overdue X Arctic Flame.

CORNING (Leo Clark, R. 1966). Sdlg. 64-C-35. Oncocyclus, 24-26", E, OR5Dcm. Blend of burnt sienna and red; large black signal; ruffled. Wizar X (I. samariae x Austin's W-830).

COTTON CLOUD (William T. Bledsoe, R. 1966). Sdlg. 63-73. TB, 40", M-L, WLW. White self. South Pacific X Swan Ballet.

*COUNTRY SQUIRE (Gaulter, TB, R. 1964). Mission Bell 1966.

*COUNTY FAIR (Corlew, TB, R. 1965). Cherry Lane 1966.

COURT PRESENTATION (Fred Maddocks, R. 1966). Sdlg. M1623. Jap, 40", ML, W1Vcm. White self with red-violet border; blue violet inside border. From two Maddock sdlgs.

COWBOY'S DREAM (Stephana Woodside, R. 1966). BB, 20", EML, Y1L. Light yellow self. Mary Randall X Carmela.

CREAMETTE (Earl Roberts, R. 1966). Sdlg. 64R2. MDB, 4", VEE, Y1Lcm. S. creamy yellow; F. same with lemon spot and small white area at beard; white beard. White Mite X Brownnett.

*CREAM MAGIC (Austin, TB horned, R. 1965). Rainbow 1966.

*CREDO (Babson, TB, R. 1964). Melrose 1966.

CRESTVIEW (Amos Kirkwood, R. 1966). Sdlg. K5802. TB, 32", EML, W4YO. S. white; F. blended blue, red and yellow (spice brown). Lady Mohr X Blumohr. Dow Garden 1966.

CRIMSON MANTLE (Kroenings Mantel) (Victor von Martin, R. 1966). TB, 37", R3D. S. oxblood red; F. semiflaring velvety red; rich yellow beard. Garden Glory X Easter Gold. Fairmount 1963.

*CRINKLED BLUE (Millice, TB, R. 1965). Wactah Majon 1966.

CRISP LEMON (Miss N. G. Stevens, R. 1966). SDB, 10", Y3LFcm.

S. primrose yellow; F. deeper with dresden yellow halo around white beard; frosty sheen texture. Green Spot X Brassie.
#CROWNING GLORY (Ghio, TB, R. 1963). Name transferred to Ghio Sdlg. 63-182L.

CROWNING GLORY (Joseph Ghio, R. 1966). Sdlg. 63-182L. TB, 36", L, B3. S. pale blue with blue midrib; F. medium blue; textured dark blue; cream to white beard. (Frosted Starlight x Whole Cloth) X (((New Snow x Lady Ilse) x Frosted Starlight)) x Frosted Starlight))).

CROWNING TOUCH (Rex Brown, R. 1966). Sdlg. 61-12-1. TB, 38", ML, W1. Heavily fluted white with bright lemon yellow beard. Celestial Snow X Ivory Lace.

*CRYSTAL BAY (B. Jones, BB, R. 1965). Bennett Jones 1966.

*CUB SCOUT (Plough, BB, R. 1965). Eden Road 1966.

CUMULUS ASCENDANT (H. Senior Fothergill, R. 1966). Sdlg. 1/46. TB, 38", E-M, W4B. S. white; F. blue. Aerial X Whole Cloth. Highly Commended 1962, BIS. Selected for trial at Wisley 1962.

CUTE TRICK (Adelaide Peterson, R. 1966). Sdlg. A-80-A. SDB, 10-12", E, W4Y. S. cream-white; F. light gold with orchid-pink inside; white beard tipped gold. Douglas 1007Y (Helen McGregor x pumila) X Brownie. Old Brook and A. Peterson 1966.

DAINTY DAMSEL (Alta Brown, R. 1966). Sdlg. M 1075-1. MTB, 18", EM, Y2BV. S. medium yellow; F. light yellow, dotted and veined with light lavender. Dainty Dancer X Desert Quail.

*DAISY CHAIN (Greenlee, SDB, R. 1964). Mrs. R. E. Greenlee 1966.

*DAISY POWELL (Hinkle, TB, R. 1963). Wild & Son 1966.

*DAME VIOLET (Swearengen, Jap, R. 1964). Swearengen 1966.

DANCING LIGHT (Edward Christensen, R. 1966). Sdlg. 2D9-1. TB, 34", M, W4Vcm. S. white; F. orchid with gold band edge on F. and S., red beard. Mary Randall x sib to Collegiate X Glittering Amber. HC 1966.

*DANCING PALOMINO (Voris, TB, R. 1964). Voris 1966.

DANCING ZENITH (Wilma Greenlee, R. 1966). Sdlg. 60-508. IB, 21", E, B1L. Light blue self. Helen McGregor X Pearl Shell. Greenlee 1966.

DARK AND HANDSOME (Walker Ferguson, R. 1966). Sdlg. 66-D&H. Spuria, 46", M, R04Ycm. S. maroon-brown; F. yellow, heavily marked with brown lines. Contradiction X Baritone. HC 1966. Ferguson 1966.

DARK EYES (R. A. Rich, R. 1966). Sdlg. 62-R-1. Arilbred, 26", E, Y5P. S. cream with pale blue overlay, deeper at midrib, lightly veined; F. cream, veined and dotted brown; dark signal; bronze beard and styles. Judean Cream X Wilkes 18-Sal.12. HC 1966.

DARK PLANET (Reuben Smith, R. 1966). Sdlg. 63-264. TB, 30-32", M, R1D. Deep oxblood red self, darker in center of F. Display x 1008 X Solid Mahogany x 153.

DARK SPICE (Gordon Plough, R. 1966). Sdlg. 59-261-32. TB, 29" EM, R1D! S. nearly solidly colored blackish red maroon

(Wilson 1030), blended lighter at base showing yellow ground color; F. same with darker margins, center is lively dark red blended into yellow toward heart; mustard-brown beard. (((Late Sunset x Tieton) x (Elsa Sass x Firecracker)) x Dark Melody))) X sib to Spice Island.

DARK TOPIC (Alta Brown, R. 1966). Sdlg. 57-36-18. BB, 23", M, R1D. S. deep red-black; F. deep red-black, slightly darker than S.; bronze beard. Great Day X Sable Night.

*DARK VALLEY (Christensen, TB, R. 1963). Eden Road 1966.

DASHING DEB (Alta Brown, R. 1966). Sdlg. 61-6-2. BB, 27", M, GOLL. Greenish-apricot self; heavy saturn-red beard. Apricot Joy X Marilyn C.

DAYS DELIGHT (Edward Christensen, R. 1966). Sdlg. 3J1-1. TB, 33", M, W1Bcm. White self with blue edge on F., ruffled. Whole Cloth X Whole Cloth. HC 1965.

DAZZLING DELIGHT (Schreiner's, R. 1966). Sdlg. S 229-D. TB, 34", M, R1D. Bright copper-red self with burnt orange sheen; F. with heavier velvety nap; self color beard. O-147-1 (((K 306-B ((I-310 (Mary Ellen x F523) (Jasper Agate x I 10)) x Britannia))) X O 136-1 (Ki24A x Defiance)). HC 1965. Schreiner's 1966.

DEB (Tim Craig, R. 1966). Sdlg. R11. IB, 16", EE, W4G. S. white; F. sea foam green. Craig sdlg. X Black Baby.

DEBONAIR COLOSSUS (W. A. Payne, R. 1966). Sdlg. 1332. Jap, 38", E, V1cm. Light ground stained and sanded hyacinth violet; royal purple halo and veins; blackish purple center. Whippoorwill X 561 (82 x 174).

*DEBORAH R (Rundlett, TB, R. 1965). Old Brook 1966.

*DEBRA JEAN (Buckles, TB, R. 1965). Buckles 1966.

*DEEP GULF (Peck, TB, R. 1963). Old Brook 1966.

DEIRDRE (Charlotte Gantz, R. 1966). Sdlg. 61-25-4. SDB, 12", E-M, RV1Fcm. Red-violet (Nickerson) self with reddish spot on F.; self beard. Chantilly x Hanselmayer X (((New Horizon x Pink Formal) x Cretica)) x Little Rosy Wings))).

DELTA STAR (Marvin Granger, R. 1966). Sdlg. 62-10. Louisiana, 32-38:, M, V1F. Deep purple self; 6-petaled with signal patch on all falls; flat, flaring form. Creole Can-Can (collected double) X (Creole Can-Can x The Kahn).

*DEMI (Stephenson, SDB, R. 1965). Old Brook 1966.

*DESERT HAZE (Roberts, SDB, R. 1965). Roberts 1966.

DESERT SIREN (Ruth Blomquist, R. 1966). Sdlg. 62-BR-2A. Aril-bred, 24", E, R05. S. medium red-brown, veined deeper red-brown; F. deeper than S., dark signal; bronze beard and styles. Austin W83-0 (pure oncocyclus hybrid) X El Kizar. HC 1966.

DESERT WIND (J. D. Taylor, R. 1966). Sdlg. F.99/2. TB, 33", L, Y3F. S. bright gold; F. bright tan. Gaylord X Golden Alps. Orpington 1966.

DEVILISH (Tom Craig, R. 1966). TB, 30", EM-VL, R1D. Deep rubient self (deeper and redder than M&P 48-18). ((Molten x (Mt. Washington x Flora Zenor)) X ((Savage x Molten) x (Mt.

Washington x Flora Zenor)).

DEVIL'S DUNGEON (Frank Chowning, R. 1966). Louisiana, 28", M-L, V1D. S. dark fluorite violet; F. lustrous black purple. From two unnamed Chowning sdlgs.

DIFFERENT (Tim Craig, R. 1966). Sdlg. 2. Oncobred, 38", E, B3. S. cadet blue; F. heavy Orient blue wash on cadet blue. Rip-tide X Striped Butterfly.

DIMINUTIVE (Albert J. Motsch, R. 1966). Psuedo-lilliput, 9", M-L, W4R. S. white; F. rose. Ormohr onco X diploid amoena.

*DIPLOMACY (Keppel, TB, R. 1965). Keppel 1966.

DIPLOMAT (C. W. Tompkins, R. 1966). Sdlg. 63-26L. TB, 40", ML-VL, B1D. Dark blue self. Salem X Mountain Music. Fleur de Lis 1966.

*DISCOTHEQUE (Hohn, TB, R. 1965). Lew Hohn 1966.

DISHEVELLED BEAUTY (W. A. Payne, R. 1966). Sdlg. 1107. Jap, 38", EM, W1Vcm. White self, veined and sanded Mathew's purple. Karahashi X Silver Frills.

DOLL DANCE (Alta Brown, R. 1966). Sdlg. D 381-8. MDB, 6", VE, B5P. S. light blue (Wilson 52/3), green midrib; F. light blue, blended green, giving a turquoise effect; blue beard. White chamaeiris sdlg. X Cute Capers.

DORETTE (Dr. Hertha van Nes, R. 1966). MDB, 6", EE, Y1F. S. brilliant pure golden yellow; F. same; golden-yellow beard; no branching. Chamaeiris X unknown, probably pumila.

*DOROTHY LEAVITT (A. Watkins, TB, R. 1965). Fairmount 1966.

DOTTIE (Jean Witt, R. 1966). Sdlg. 62-05-23. MTB, 20", M, W2VL. S. white, dotted orchid-pink; F. white less heavily dotted orchid-pink. Rose sdlg. (Dawn x Ruby Roundfall) X same.

DOUBLE DECKER (Tim Craig, R. 1966). Sdlg. B2. TB, 48", M, W4B. S. white; F. hydrangea blue. Blue Silhouette X Whole Cloth.

DOVE IN FLIGHT (W. B. Schortman, R. 1966). Sdlg. 6584. TB, 36", M-L, Y5. Dove colored blend, buff brown and blue self. Golden Dawn X yellowish red sdlg. 3118.

DOWN TOWN (Tim Craig, R. 1966). Sdlg. 239. MDB, 7½", EE, RV1D cm. Royal purple self with light roslyn blue spot on F. KB 8 X Little Darkie. Craig 1966.

*DRAGON LADY (Opal Brown, TB, R. 1964). Brown's Sunnyhill Gardens 1966.

DREAM PRINCESS (W. A. Payne, R. 1966). Sdlg. 1331. Jap, 42", E, V1cm. S. amethyst-violet with white edge; F. light ground uniformly sanded and lightly veined wisteria violet. 346 (30 x 87) X 1030 (Smiling Beauty x Miss Simplicity).

*DREAM STEP (Danielson, Regeliocyclus, R. 1965). Mount Clare 1966.

DREAM TIME (Schreiner's, R. 1966). Sdlg. V 553-1, TB, L, 38", V1P. True lilac self, uniform color, heavily ruffled. R 780-2 (((Snowy Heron x L 637-D ((New Snow x Midwest Gem x Chantilly))) x Hall's ruffled white sdlg.))) X R 118-5 (Amethyst Flame x Pretty Carol). HC 1966.

DREAM VENDOR (Dorothy S. Palmer, R. 1966). Sdlg. 5765E. TB, 35", M, O3P. S. medium pink; F. lighter shade with lighter area around coral beard. Lilting Melody X One Desire. HC 1966.

DUNKLE LIEBE (Dr. Hertha van Nes, R. 1966). MDB, 8", EE, RV4NR. S. very dark red-purple; F. black-red, velvety; brilliant orange beard; no branching. Little Jewel & unknown.

DUPLEX (Wilma Greenlee, R. 1966). Sdlg. 62-12. SDB, 13", E, V3FD. Violet bitone. Tranquil Moon X Rich Acres (pumila). Greenlee 1966.

#DUSKY DANCER (Walt Foulger, TB, R. 1952). Released to Luihn.

DUSKY DANCER (Walt F. Luihn, R. 1966). Sdlg. 63-50. TB, 36", M-L, V1DD. Extremely dark violet-black self; ruffled; self beard. Dark Fury X Black Swan. HC 1964.

*EARLIBLUE (Bennett Jones, MDB, R. 1965). B. Jones 1966.

*EARTHLING (Hager, BB, R. 1965). Melrose 1966.

EASY STREET (C. W. Tompkins, R. 1966). Sdlg. 63-25C. TB, 36", E-VL, W2V. White self bordered black-violet; ruffled and flaring. ((Full Circle x (New Hope x Dark Halo) x Full Circle)) X Rococo. Fleur de Lis 1966.

*ECHO ONE (Schortman, TB, R. 1963). Schortman 1966.

*EDNA PATTERSON (A. Watkins, TB, R. 1962). Fairmount 1966.

ED WATKINS (E. & A. Watkins, R. 1966). Sdlg. 61-30-a. TB, 32", L, V1L. Campanula violet self (Wilson 37/2); blue beard. Olive's Pride (Ice Carnival x Land's End) X Katharine McLain. Fairmount 1966.

*EGO (McGarvey, Sib., R. 1965). Old Brook 1966.

EIGER (Tim Craig, R. 1966). Sdlg. 196A. TB, 40", M, VB1D. Imperial blue self. Mary McClellan X Willie 7-R-1.

ELEGANT TRY (Dorothy E. Guild, R. 1966). Sdlg. 63E8. MTB, 26", E-M, VB1cm. Wisteria blue self with faint veining pattern. Eversweet X Eversweet.

ELFIN GOLDTONE (Earl Roberts, R. 1966). Sdlg. 61R23. IB, 17", EM, GY1F. S. golden tan with greenish cast; F. same. Quechee X Cook 1155 (Progenitor x blue pumila).

*ELFIN SILVER (Roberts, IB, R. 1965). Roberts 1966.

ELIZA W. (Mrs. Margaret Garrett, R. 1966). TB, 36", ME, O1P. Pink self. Dorothy Dean X Ballerina.

*EMMA FRANCES (Sarro, SDB, R. 1962). Old Brook 1966.

ENCHANTED SNOW (Ruth Goodrick, R. 1966). Sdlg. 63-24. TB, 35", M, WL. White self with strong orange beard. ((New Snow x Party Dress) x Lipstick)) X (((New Snow x Party Dress) x Lipstick) x Lipstick sdlg.))).

ENCHANTED SWAN (W. A. Payne, R. 1966). Sdlg. 1090. Jap, 38", M, WLY. White self tinted yellow. 631 (Miss Simplicity x Imperial Robe) X 453 (118 x 127).

ENCHANTING MELODY (R. A. Rich, R. 1966). Sdlg. K60-12A. Jap, 32", ML, V1Lcm. Light mallow pink self, with some yellow

markings and deeper lilac-pink styles. W-17 X Geisha Gown. HC 1966.

ENOS (Carl and Mabel Bacon, R. 1966). MDB, 5", EE, BlL. Wisteria blue self. April Morn X April Morn.

*EN ROUTE (Hager, MTB, R. 1965). Melrose 1966.

*ENTR'ACT (Hager, MTB, R. 1965). Melrose 1966.

*ERIKA (Knopf, TB, R. 1965). Knopf and Tell's 1966.

ESPRESSO (Gerhard A. Carlson, R. 1966). Sdlg. B61-17-K. TB, 36", ML, 05Dcm. S. rich dark brown; F. same with violet blaze; dandelion-brown beard tipped violet. Sib to Granada X Tistops.

#ETERNAL LOVE (Hazel Schmelzer, TB, R. 1963). Name released to Schmelzer.

ETERNAL LOVE (Hazel Schmelzer, R. 1966). Sdlg. 16-5-N.E. 3. TB, 37", M, WLV. S. white, tinted palest lilac; F. same. Lilac Snow x sib (crossed seedlings for three generations) X sdlg. of same as above.

#ETERNAL FLAME (Schreiner's, TB, R. 1961). Name transferred to Schreiner sdlg. T 1004-1.

ETERNAL FLAME (Schreiner's, R. 1966). Sdlg. T 1004-1. TB, 37", M, 05L. Golden brown self blend, ruffled; brighter metallic Olympic Torch type. N 786-1 (Spellbound x Inca Chief) X Olympic Torch.

EVA'S PRIDE (E. & A. Watkins, R. 1966). Sdlg. 58-23-A. TB, 32", M, BlP. Pale blue self. Charles Fowler X Blue Throat.

EVENFALL (Caroline DeForest, R. 1966). TB, 33", M, Y01L. Blended apricot-coral self; apricot-orange beard. 57-88 (Sunset Sail x Cloudcap) x Frost and Flame X (Dawn Crest x Glittering Amber).

EVENING FLIGHT (Reuben Smith, R. 1966). Sdlg. 62-16. BB, 24-28", M, W2BV. S. dark violet-blue on white; F. same, both somewhat smoky. Gibson Girl X Fire Dance.

*EXECUTIVE (Knopf, TB, R. 1965). Knopf 1966.

*EXOTIC DREAM (E. Smith, TB, R. 1965). Smith 1966.

FAIR BUT COOL (Charles Wm. Voris, R. 1966). Sdlg. 66-50. TB, 30-32", M, Y1Fcm. S. lemon; F. same bordered white, flaring. Whirlaway X Sorbete.

FAIR COLLEEN (Leona P. Mahood, R. 1966). Cal-Sib., E, 22", W1Bcm. S. white ground, covered with fine blue-lavender lines; F. same, with yellow patch at throat, slightly wavy. I. Douglasiana X Siberica sdlg. Northwest Hybridizers 1966.

FAIR WINDS (Miriam Corey, R. 1966). Sdlg. Z-73-B. TB, 36", M, W1Bcm. S. white, touching; F. white brushed blue from edges up 1/3; flaring. Stormcrest X Whole Cloth.

FAIRY CARILLON (W. A. Payne, R. 1966). Sdlg. 1212. Jap, 32", E, V4Wcm. S. Hortense violet (Ridgway) with white edge; F. white tinted violet with prominent light halo and veins; Hortense violet center. Sky and Water X 651 (246 x 236).

FALL BLUE CONTRAST (G. Percy Brown, R. 1966). TB amoena, re.,

30", W4B. S. white; F. robin's egg blue; orange beard; slight fragrance. Autumn Sensation X Summer White Wings.

FALLBRIGHT (Mrs. Ray Blackley, R. 1966). TB, 30", E-M, Ylcm. S. yellow, edged rosy brown with greenish midribs; F. yellow with narrow light rosy violet blaze, edged same brown as S.; yellow beard. Caribou Trail X Lady Albright.

*FALL FAVOR (McGarvey, TB re, R. 1965). Old Brook 1966.

*FALL FESTIVAL (R. G. Smith, BB re, R. 1965). Roberts 1966.

FALL GAYLITE (G. Percy Brown, R. 1966). BB re, 20", W4YO. Amoena; pure white S.; golden veins beside orange beard; tip of F. pinkish brown. Gay Paree X Autumn Sensation.

*FALL GLORY (G. P. Brown, BB re, R. 1965). Brown's Everblooming Iris Garden 1966.

FALL NOVELTY (G. Percy Brown, R. 1966). TB re, 30", L, W2RV. S. white with red-purple markings; F. white center, red-purple veins and dots; orange beard; fragrant. Summer Whitewings X Lugano.

FALL YELLOW SUPREME (G. Percy Brown, R. 1966). TB re, 30", YlPcm. Pale yellow self with white area beside and beyond orange beard; slight fragrance. Winter White sdlg. X Lugano.

*FANFARE ORCHID (Bennett Jones, TB, R. 1965). B. Jones 1966.

FANTAILS (Ethella Meeson, R. 1966). Sdlg. 20.56. TB, 36", ML, Wl. White self. New Snow x (White sdlg. x Blue Rhythm) X Lady Ilse.

FARAWAY DREAM (Mrs. John Hardy, R. 1966). I. innominata, 15", E, RV1. Red-violet self. Collected.

FAST SERVICE (Fastenniesse) (Victor von Martin, R. 1966). TB, 35", M-L, VR1F. Magenta rose (027/1) self. Fairmount 1965.

*FAR GOLD (F. DeForest, TB, R. 1963). Irisnoll 1966.

*FAROLITO (Hager, Spuria, R. 1965). Melrose 1966.

FASHION FARE (Rex Brown, R. 1966). Sdlg. 61-38-2. TB, 36", M, 04Y. S. peach-pink with fine edge of lemon-yellow; F. lemon-yellow, brushed with peach pink on each side of saturn-red beard. Marilyn C. X Pin Up Girl.

FASTENNIESSE (Victor von Martin, TB, R. 1966). See Fast Service.

*FAVORITE TOPIC (Schmelzer, TB, R. 1965). Schmelzer 1966.

*FETE DAY (C. DeForest, TB, R. 1965). Irisnoll 1966.

*FIREDRAKE (Wills, TB, R. 1963). Wills 1966.

*FIRST ORBIT (Himottu, TB, R. 1965). Pride 1966.

*FIRST SNOW (Neva Sexton, TB, R. 1965). Sexton 1966.

FIRST VALENTINE (Miriam Corey, R. 1966). Sdlg. Z-71-1. TB, 36", M, W10. White self, flushed pale pink; ruffled. 18-S (SQ 70 twice and sdlgs. of Cherie, Fantasy, Chantilly, Gussie, Sugarplum, Cherito) X Lace Flounces. HC 1965.

*FLAMING DRAGON (Fay, TB, R. 1965). Moldovan 1966.

FLAMINGO DAWN (Les Peterson, R. 1966). Sdlg. LP 64-20. TB, 32", ML, Y04VB. S. medium peach-pink; F. lavender-blue; burnt orange beard. Hidden Promise X Gypsy Lullaby. HC 1966.

- FLAMING STAR (Gordon Plough, R. 1966). Sdlg. 62-34-49. TB, 33", EML, YOLF. S. Cadmium orange (Wilson 8/1) with pink glow in center; F. same with clean hafts; Saturn-red beard. Marilyn C. X Orange Parade.
- FLAXFLOWER BLUE (Caroline De Forest, R. 1966). Sdlg. 64-40S. TB, 34", M, BlL. Light flaxflower blue self; deeper blue beard. High Above X Mountain Music. HC 1966.
- FLOATING MOON (Caroline DeForest, R. 1966). Sdlg. 62-51. TB, 34", M, Y1Pcm. S. cream; F. cream and yellow. ((Rehobeth x Cloudcap) x Lula Marguerite)) X Christmas Angel.
- FLORENCE BELLIS (Schreiner's; selector, George Thompson, R. 1966). Sdlg. R 732-3. TB, 33", ML, WLW. Crinkled pure white self. I 128 (Spanish Peaks x F 315): (Midwest Gem x Chantilly) x I 127 ((New Snow x F 315) Midwest Gem x Chantilly)) X Whir of Lace.
- *FLUTED GOLD (Schortman, TB, R. 1964). Schortman 1966.
- *FLUTED LIME (Noyd, TB, R. 1965). Noyd 1966.
- FLYING STAG (W. A. Payne, R. 1966). Sdlg. 771. Jap, 42", LM, Blcm. Light ground with halo and veins of roslyn blue; margin slightly darker with white hairline. Warei-hotei X 226 (62 x 110).
- FOND MEMORIES (Hazel Schmelzer, R. 1966). Sdlg. B-25-64-9. TB, 35", EM, V3PL. Violet bitone; S. white, tinted pale sea-lavender violet; F. deeper. Curl'd Cloud X Miss Indiana.
- FOND WISH (Eva Smith, R. 1966). Sdlg. 64-693. TB, 36", LM, W4Ycm. S. light orchid; F. cream with orchid border; bright tangerine beard; lacy and ruffled. Rippling Waters X Lovely Lettie.
- FOREIGN LEGION (Steve Moldovan, R. 1966). Sdlg. 65-24. TB, 30", ML, OY5F. Bright golden tan self; ruffled; wide brown beard. Orange Chariot X Gypsy Jewels.
- FOREST NIGHT (Wilma Greenlee, R. 1966). IB, EM, VB1D. S. blue-black; F. blue-black. Black Forest X Pearl Shell sdlg. Greenlee 1966.
- FOREVER MORE (Schreiner's; selector, George Thompson, R. 1966). Sdlg. T 1439-1. TB, 33", ML, V1P. Silver-lavender self. Crinkled Beauty X R 113-F (Amethyst Flame x Alpenrose).
- *FOUNTAIN BLUE (Hamblen, TB, R. 1964). Mission Bell 1966.
- FOX HUNTING (Victor von Martin, R. 1966) (Fuchs jagd). TB, M, 36", R1D. Glowing brick red self. Cordovan X Orange Gem. Florence: Silver trophy, best red, 1961. Fairmount 1964.
- FRANCES COLE (Mrs. Margaret Garrett, R. 1966). TB, 37", E, O1P. Pale pink self. Dorothy Dean X Ballerina.
- FRANCISCAN FRIAR (Glenn Corlew, R. 1966). Sdlg. 198-5A. TB, 34", M, Y3FL. S. canary yellow; F. lighter edged same as S.; faint brown plicata marking at haft. Memphis Lass X Irma Melrose. HC 1966.
- *FRAN JENNINGS (Goett, SDB, R. 1965). Old Brook and Goett 1966.
- FRENCH CROWN (Tom Craig, R. 1966). Sdlg. 66 B 1. TB, 30", EM, VB3D. S. French blue; F. glory blue. Royal Giant X Whole

Cloth. Craig 1966.

FRENCH WINE (Earl Roberts, R. 1966). Sdlg. 12R63. MDB, 6", VE, R3D. S. deep velvety wine; F. same with blackish flush; lavender-blue beard. Stint X Stint. HC 1966.

FRISCO DOLL (Reuben Smith, R. 1966). Sdlg. 62-20. TB, 36-40", M, Y1F. Luminous pure yellow self; ruffled. Goldbeater X Solid Gold.

FRISKY (Schreiner's, R. 1966). Sdlg. T 1297-B, SDB, 12", E, Y40Rcm. S. extremely bright clear yellow, very luminous; F. smooth varnished red-mahogany, gold edge. Involved tall bearded blend X selected pumila clone from Austria. Schreiner's 1966.

*FROSTED CUPS (Warburton, IB, R. 1965). Old Brook and Warburton 1966.

FROSTED LILAC (Dorothy Palmer, R. 1966). Sdlg. 9865P. TB, 36", ML, V1Pcm. Lilac self with frosted white area in center of falls; white beard; ruffled. Queen's Favor X 8960A (Mary Randall x Crispette). HC 1966.

FROST FIRE (Frank Foster, R. 1966). Sdlg. FF-63-1. TB, 34-35", E-M, W1B. S. silver-white; F. glistening white overlaid with faint blue cast; saturn-red beard. (Frost and Flame x Azure Flame) X (Frost and Flame x Colorado Melody). Mesa Iris Gardens 1966.

*FROSTY TOP (A. Brown, IB arilbred, R. 1965). Brown's Iris Gardens 1966.

FRUEHWIND (Dr. Peter Werckmeister, R. 1966). Sdlg. Luk./2(63). TB, 36", L, V5L. S. brownish orchid; F. same, slightly darker blended orchid with bluish tinge. "Lukasta" (Three Oaks x Hermann Hesse) X 74.01 x Pink Plume.

FUCHSJAGD (Victor von Martin, TB, R. 1966). See Fox Hunting.

FUJI'S MANTLE (Schreiner's, R. 1966). Sdlg. T 78-C. TB, 35", M-L, W4BL. White bicolor. S. pure white; F. starting pure white at haft and beard, slowly yielding to brush strokes light blue, eventually becoming a wash of light blue at edge. Colored somewhat manner of Jap iris. Salem X Wonderment. Schreiner's 1966.

GALA FIESTA (Dorothy Guild, R. 1966). Sdlg. 63E2. MTB, 26", E-M, 04Ycm. S. bronzed-brown; F. cream with wire edging of bronze-brown and violet-blue blaze; reddish-bronze stripes at haft. Eversweet X Eversweet.

GARDEN CAPRICE (W. A. Payne, R. 1966). Sdlg. 1280. Jap, 38", M, V1cm. Blends from amethyst violet to light hortense violet; prominent white veins; no halo. Sky and Water X Mai-ehgi.

GAY BRINDY (Lavinea Homacher, R. 1966). Sdlg. S68. TB, 24", EE, RV3PF. S. light purple-pink; F. reddish purple with border of pink; lacy. Break of Day X 52-52.

GAZOO (Maynard Knopf, R. 1966). Sdlg. 64-63. TB, 38", ML, W1W. No standards; white double falls. Celestial Snow X Beauty Queen.

*GEMINI (Knopf, BB, R. 1965). Knopf and Tell's 1966.

GENTLE PRESENCE (Frances Brown, R. 1966). Sdlg. 60-212. TB,

38", M, Y4RV. S. creamy-buff; F. dark red-violet. Melodrama X (Taholah x Melodrama) HC 1964. Landsend Gardens 1966.

GEORGE FOWLER (E. & A. Watkins, R. 1966). Sdlg. 58-64-a. TB, 37", M, BlF. Wisteria blue self (Wilson 640), rich and distinctive in color; F. ruffled. Eleanor's Pride X Cloudless Sky. Fairmount 1964.

*GETI (L. Freudenburg, TB, R. 1965). Freudenberg 1966.

GILDED HEIRESS (Charles Wm. Voris, R. 1966). Sdlg. FFWh66-50. TB, 38-42", M-L, O4Wcm. S. pink edged with gilt; F. white, gilt edges, heavy gold haft; orange beard. Whirlaway X Frost and Flame.

GLACIER ICE (Elbert Smith, R. 1966). Sdlg. 59-ES-8-1. TB, 30-34", E, WLB. Blue-white self; gives effect of gray-blue dipped in white wax; pale blue beard. White Wedgewood X Pinnacle. EC 1963.

*GLACIER SUNSET (O. Brown, TB, R. 1965). Brown's Sunnyhill Gardens, 1966.

*GLEAMING GOLD (Roberts, SDB, R. 1965). Roberts 1966.

GLETSCHERSPALTE (Dr. Hertha van Nes, R. 1966). MDB, 8-10", EE-E, W3. S. clear, cold white with slight bluish tinge; F. warm white; blue beard. 0-539 orchid breeder X aphylla dark violet.

GLIMMER (Wilma Greenlee, R. 1966). IB, 16-18", L, Y5Pcm. Color changeable over yellow base; S. pale ecru to pale blue; F. pale ecru; pure green overlay spot; indigo-blue beard. Black Forest X Pearl Shell sdlg. Greenlee 1966.

GLINT O'COPPER (W. A. Payne, R. 1966). Sdlg. 892. Jap, 38", LM, RV5. Dull magenta purple flecked with white; brown effect. Scherzo X 709 (340 x Scherzo).

GLITTER AND GLAMOUR (W. A. Payne, R. 1966). Sdlg. 1333. Jap, 38", E, Vlcm. Light ground sanded ploroma violet; white veins; no halo; styles ploroma violet. 962 (792 x Debonair Prince) X Winter Festival.

GLITTERING CLOUD (Stephana Woodside, R. 1966). TB, 34", ML, Y1F. Bright yellow self. Cloudcap X Glittering Gold.

GLOWING TIARA (Schreiner's, R. 1966). Sdlg. T 965-2. TB, 32", L, V5F. Medley of copper-violet, sunset hues, and reds intermingled; F. with pronounced blue flush in center; brown beard. M 801-1 (Oriental Glory x Inca Chief) X R 1053-1 ((M728-B (Inca Chief x Lady Albright)) x L 354-3 (Savage x Oriental Glory)). Schreiner's 1966.

*GOLD DISCOVERY (Austin, TB, R. 1965). Rainbow 1966.

GOLDEN CHARMER (Lerton W. Hooker, R. 1966). Sdlg. 4671. TB, 34", M, Y1F. S. yellow, quite laced and ruffled; F. same with some lace and ruffling; orange beard. Sunshine Yellow ((Ola Kala x Mary Randall) x Waxing Moon)) X Yellow Ripples - involving (Ola Kala x Mary Randall), Chantilly, Dolly Varden, etc.

*GOLDEN CHORD (Hamblen, TB, R. 1964). Mission Bell 1966.

*GOLDEN LACE (E. Smith, TB, R. 1965). Smith's Iris 1966.

*GOLDEN OAK (Valette, TB, R. 1963). Tell's 1966.

*GOLDEN OPPORTUNITY (Bledsoe, TB, R. 1964). Bledsoe and Terrell 1966.

GOLDEN PALOMINO (Reuben Smith, R. 1966). Sdlg. 59-111. TB, 36", M, Y4Wcm. S. golden yellow with pink influence; F. same splashed white in center. Solid Gold X Palomino.

*GOLDEN PLUNDER (Fay, TB, R. 1965). Moldovan 1966.

*GOLDEN SNOW (Dorothy Palmer, TB, R. 1964). Palmer 1966.

GOLDEN SPECTATOR (Susan Haney, R. 1966). Sdlg. 62-2A. TB, 38", EM, Y4Wcm. S. golden yellow; F. white, bordered ginger-brown; some sprinkling of dots in haft; yellow beard; ruffled. Rodeo X (Tabaso x yellow plicata sdlg.).

GOLDERADO (W. B. Schortman, R. 1966). Sdlg. 6357. TB, 36", EML, Y1F. Yellow self with light area in F. Gold Formal X Curls of Gold.

GOLD LOCKET (Alta Brown, R. 1966). Sdlg. D 290-7. MDB, 4", VE, Y3. S. bright Indian yellow (Wilson); F. deeper orange-yellow; bright yellow beard. D 1-9 (April Morn x unknown) X D 135-1 (Little Charmer x Carpathia).

*GOLD QUEST (F. Deforest, Jr., TB, R. 1965). Irisnoll 1966.

GOODNESS GRACIOUS (H. W. Neubert, R. 1966). Sdlg. 15-64B. TB, 40", M, VBLD. Dark violet-blue self; lemon beard tipped white. Lady Angie X Violet Grace.

GOOD TASTE (H. H. Henkelman, R. 1966). TB, 32", M, Y01L. Salmon self. Ballerina X Garden Party.

GOOD THUNDER (Walker Ferguson, R. 1966). Sdlg. 65-15. Spuria, 44", L, Y1F. Bright yellow self. 63-C (Golden Lady x Silent Laughter) X Plenty of Sunshine. Ferguson 1966.

GOSAU (R. A. Wise, R. 1966). Sdlg. 1/64. TB, 45", M, W4V. S. white; F. light violet. 4/61 (Arabi Pasha x Kazdenjunga) X Arc Above.

*GOSSAMER THREADS (Hazzard, Jap, R. 1965). Hazzard 1966.

GRACEFUL LADY (Mrs. Edward Miller, R. 1966). Sdlg. 62-K-E. TB, 36", M, V1Pcm. S. lavender-pink; white in F. and edged with lavender-pink. Gay Lavinia X Lipstick.

GRACIOUS LIVING (L. W. Brummitt, R. 1966). Sdlg. 2009/l. TB, 36", M, Y4RV. S. cream, shaded color of F. at base of mid-rib; F. imperial purple shaded lilac below beard; hafts sepia. Melodrama X Mary Randall.

GRAND APPLAUSE (Margaret Beck, R. 1966). Sdlg. 62-14. TB, 40", M, OY1F. S. butter yellow edged darker yellow; F. same brushed white; heavily crinkled. Truly Yours X Ola Kala x 6044-12.

GRAND BALL (Schreiner's; selector, George Thompson, R. 1966). Sdlg. T 480-A. TB, 40", EM, V1D. Deep bishop's purple self. (Blue Glow x Black Belle) x Storm Warning X (First Violet x King's Choice).

GRAND RAPIDS (C. W. Tompkins, R. 1966). Sdlg. 61-61B. TB, 38", M-L, OR5D. Copper self. 57-55 x Allaglow X War Bonnet. Fleur de Lis 1966.

GREEN DUCHESS (Lloyd Austin, R. 1966). Sdlg. 18. Arilbred,

27", EM, Y3cm. S. light yellow with light green veins; F. chartreuse, leaf green veins; hafts yellow with bronzy green veins. Slick Chick X Joppa Parrot. Rainbow 1966.

*GREEN ILLUSION (Jennings, TB, R. 1962). Eden Road 1966.

*GREEN PIXIE (A. Brown, MDB, R. 1965). Brown's Iris Gardens 1966.

GREYBULL (Stephana Woodside, R. 1966). TB, 36", ML, B5. Grey-blue self. Debonair Blue X Ribbon Round.

*GRUBSTAKE (L. Lenz, Pacific Coast hybrid, R. 1963). McCaskill 1966.

GYPSY DANCER (George Shoop, R. 1966). Sdlg. B60-16-2. TB, 36", EM, O1. Deep orange self; orange-red beard. Bright Magic X 55-39. Shoop 1966.

GYPSY FIRE (Eva Smith, R. 1966). Sdlg. 65-1. TB, 36", EM, R1D. Maroon-red self; bright orange beard. Formal Affair X Plum Delight.

*GYPSY MELODY (E. Smith, TB, R. 1965). Smith 1966.

HALF CROWN (Earl Roberts, R. 1966). Sdlg. 21R63. SDB, 14", E, Y1Fcm. S. medium yellow; F. same with mahogany marking. 61R34 (Brownett x Fay 54-93 pink) X sib.

HALLELUIAH MISS (Dr. C. M. Stults, R. 1966). Sdlg. 62-14. TB, 40", M, RV1L. Rosy-violet S.; F. slightly deeper. First Violet X Mary Randall.

HALLELUJAH TRAIL (C. W. Tompkins, R. 1966). Sdlg. 62-1C. TB, 36", M-VL, W2O. White bordered coppery orange; stitched and speckled. (Copper Halo x Rimfire) X (Rimfire x Full Voltage). Fleur de Lis 1966.

HAMMER BEE (Reuben T. Smith, R. 1966). Sdlg. 36-33. TB, 34", M, Y1F. Deep golden yellow self, heavily sprinkled with frost. Ola Kala X Solid Gold.

HAPPY HOUR (Alta Brown, R. 1966). Sdlg. M 506-10. IB, 18", E, W2RV. S. white, heavily overlaid with red-purple markings; F. white with narrow border of red-purple stitching. Dale Dennis X Rococo.

HARBOR VIEW (Edward Christensen, R. 1966). Sdlg. 1BL-1. TB, 36", EM, BLF. Light blue self; darker blue beard; semiflaring. Blue Sapphire X Melodrama.

HARRY'S PRIDE (E. & A. Watkins, R. 1966). Sdlg. 62-35-a. TB, 36", M, BLF. Medium blue self with blue beard. Galilee X Major Eff.

HASTINGS FESTIVAL (Hugh Miller, deceased), R. 1966 by Reginald Usher, grower). Sdlg. Miller K 4/25. TB, 30", L, V1P. Orchid-pink self. (Kentish Cordelia x Mary Randall) X June Meredith.

HAVELSEE (Dr. Peter Werckmeister, R. 1966). TB, 31-35", M, W2B. S. white, blue powdered; F. white, dark blue powdered. Havelberg X Segelfalter.

HEATHER HALO (Mrs. J. R. Hamblen, R. 1966). Sdlg. H8-88. TB, 34", ML, V5Lcm. S. violet with sienna overlay; F. amethyst-violet with sienna border and hafts. Top Favorite X Enchanted

Violet. HC 1962. Mission Bell 1966.

*HEATHER HAWK (Gibson, TB, R. 1965). Cooley 1966.

HEATHER VALLEY (Gerhard Carlson, R. 1966). Sdlg. M63-17-8. TB, 38", M, V5Dcm. S. mauve (Wilson 39/3); F. light red-violet (32/1). (Granada x Granada) X Melodrama.

*HEAVENLY GUEST (Schmelzer, TB, R. 1962). Schmelzer 1966.

HEAVENS ABOVE (Cora May Pickard, R. 1966). Sdlg. C 1642. TB, 35", ML, BlP. Sky blue self with hint of Cahokia tint. Galilee X ((Cahokia x Meiss 177c) x (Cliffs of Dover x (Cahokia x Meiss 177c)) (white). HC 1966.

*HEAVEN'S OWN (N. Sexton, TB, R. 1965). Sexton 1966.

HELEN MYERS (C. & K. Smith, R. 1966). Sdlg. 64-55. TB, 36", M-L, BlP. Ridgway pale violet-blue self; F. tipped white; pale yellow beard. Wisdom X ((Inland Sea x (Lake George x Dolly Lorey)).

HELEN TRIGG (Lloyd Zurbrigg, R. 1966). Sdlg. 60-50-7. TB re, 37", M & re, YOLP. Pale tangerine-orange self; F. perhaps slightly deeper; deep tangerine beard. Mott re pink sdlg. X Double Duty. Avonbank 1966.

HEPHAISTOS (Victor von Martin, R. 1966). TB, 36", VL, R1D. Chrysanthemum crimson self. Town Talk X Bang. Fairmount 1965.

HIDDEN CARGO (Mrs. Nick Carstensen, R. 1966). Sdlg. C 9-65. TB, 36", L, R05D. Red-brown blend. Hidden Fire x Jungle Fires X Jungle Fires.

*HIDDEN MAGIC (Neva Sexton, TB, R. 1965). Sexton 1966.

*HIDDEN PROMISE (L. Peterson, TB, R. 1965). Tell's 1966.

HIGH ESTEEM (C. W. Tompkins, R. 1966). Sdlg. 62-37E. TB, 44", E-VL, OR1P. Deep pink self, undertoned coral. High Note X Apple Valley. Fleur de Lis 1966.

HIGH PRAISE (Schreiner's, R. 1966). Sdlg. V 922-A. TB, 35", L, BV1F. Very uniform smooth, vivid tone of blue-violet, no haft marks; self color beard with pronounced white tips. Blue Mountains X R 632-3 (First Violet x King's Choice). Schreiner's 1966.

HIGH SIERRA (Larry Gaulter, R. 1966). Sdlg. 63-259. TB, 38", ML, WLW. White self. Fleur de Blanc x Swan Ballet x Mary McClelland x Celestial Snow X Sib. HC 1966.

HIMMEL DER HEIMAT (Victor von Martin, TB, R. 1966). See Sky at Home.

HIMMELSAUGE (Dr. Hertha van Nes, R. 1966). Sdlg. L-1001. MDB, 6", EE, BlL. S. light blue; F. light blue with slightly darker middle; white beard. Unknown x unknown.

*HI VALUE (Knopf, TB, R. 1965). Knopf 1966.

*HOLIDAY CHEER (Doris Foster, Arilbred, R. 1964). Tell's 1966.

HOOD RIVER SKIES (C. Wells by C. W. Tompkins, Selector, R. 1966). Sdlg. W5-60. BB, 18", M, BlP. Light blue self. Chivalry X Wells' blue sdlg. Fleur de Lis 1966.

HONESTY (Steve C. Moldovan, R. 1966). Sdlg. 64-91. TB, 30",

- EM, BlP. Light blue self; paler around white beard. Salem X 60-90 (Galilee x Celestial Blue).
- *HONOR GUARD (M. Olson, TB, R. 1964). Brown's Sunnyhill Gardens 1966.
- HOT SAND (Margaret Beck, R. 1966). Sdlg. 60-65. TB, 42", M-L, Y05L. S. light tan, stitched in blue-green; F. creamy-tan with violet marks and green stitches; slightly ruffled. Western Hills X Autumn Twilight.
- *ICE FAIRY (Witt, MTB, R. 1962). Northwest Hybridizers, Witt, and Dunderman 1966.
- ICE FOLLIES (Frances Brown, R. 1966). Sdlg. 60-102. TB, 36", M, WLY. Creamy white self. Henry Shaw X (Berta B x Full Dress). Landsend Gardens 1966. HC 1964.
- *I GO KUM (Swearengen, Jap, R. 1964). Swearengen 1966.
- ILLINI ENCORE (D. Steve Varner, R. 1966). Sdlg. 613. Siberian, 40", EML, WLV. S. white with light violet tint; F. white overlaid with etching of light violet. (Tealwood x Snow Crest) X 63-1 (Tealwood x Tealwood).
- IMPERIAL BEAUTY (Eleanor McCown, R. 1966). Sdlg. 66-6. Spuria, 48", M, RV40Ycm. S. deep purple (Nickerson 5P 3/9); F. orange-yellow (10 YR 8/10) bordered deep purple. Ferguson sdlg. "Inflation" X Driftwood.
- IMPERIAL FIREWORKS (W. A. Payne, R. 1966). Sdlg. 1309. Jap, 38", LM, Vlcm. Hyacinth violet self with white halo and veins. 799 (Warei-hotei x 226) X Mai-ohgi.
- IMPERIAL FLIGHT (Eleanor McCown, R. 1966). Sdlg. 65-18. Spuria, 48", M, V4Ycm. S. brilliant violet (Nickerson 10PB 5/9); F. brilliant yellow (5Y 9/9), veined and bordered brilliant violet. Counterpoint X White Heron.
- IMPERIAL NIGHT (Eleanor McCown, R. 1966). Sdlg. 66-15. Spuria, 48", M, RV40Ycm. S. deep purple (Nickerson 5P 3/9); F. orange yellow (10YR 8/10); bordered deep purple. Spring Plum X Ferguson sdlg. "Inflation".
- IMPERIAL PURPLE (W. A. Payne, R. 1966). Sdlg. 1117. Jap, 43", M, RV1Dcm. Cotinga purple with hairline edging; styles prune purple. Cobra Dancer X Confetti Shower.
- IMPERIAL RAIMENT (W. A. Payne, R. 1966). Sdlg. 1272. Jap, 38", M, Vl. Blends from wistaria violet to Bradley's violet, styles tipped nigrosin violet. Red Titan X 1043 (Magic Ruby x 580).
- IMPERIAL RUFFLES (Eleanor McCown, R. 1966). Sdlg. 65-26. Spuria, 60", M, V3PLcm. S. pale violet (Nickerson 10PB 8/4); F. light violet (10PB 7/6); yellow signal; ruffled. Dutch Defiance X Blue Pinafore. Van Dusen 1966.
- IMPERIAL SPLENDOUR (W. A. Payne, R. 1966). Sdlg. 989. Jap, 41", LM, VlDcm. S. fluorite violet; F. same with blue halo; styles fluorite violet. Hisakata X Debonair Prince.
- *INDIAN ECHO (Carstensen, TB, R. 1965). Nick's 1966.
- INDIAN FIRE (Wilma Greenlee, R. 1966). Sdlg. IB65-4. IB, E, Rlc. S. bright red; F. bright red, deeper red spot. Quechee X Red dwarf 40-chromosome sdlg. (called Red 40.).

INDIAN HEAD (James S. Tucker, R. 1966). Sdlg. 123B. TB, 35", ML, OR1D. Dark red-bronze self. 953X (Mary Randall x Constant Comment) X Caribou Trail.

INDIGO IMP (Cliff L. Elkins, R. 1966). Sdlg. 61-E-1S. TB, 36-38", EM, VBLD. Blue self. (Black Forest x Black Mischief) X Sable Night.

INK DROP (Tim Craig, R. 1966). Sdlg. 19. MDB, 6", EE, V1DD. Roman-purple self which darkens to egg plant black toward center of F. Moonchild X Black Baby. Craig 1966.

INTEGRITY (Ferris D. Gaskill, R. 1966). Sdlg. 62-72. TB, 34", E, ROLL. Self with red beard. Happy Birthday X D. Hall pink sldg. HC 1966.

IPPISSISSIM (Dr. C. M. Stults, R. 1966). Sdlg. 62-26. TB, 35", EE, Y4Wcm. S. clear medium yellow; F. white with hafts and border matching S. Golden Fleece X Jake.

IRENE NEECE (Tell Muhlestein, R. 1966). Sdlg. T 61-5-1. TB, 32-36", M-L, V1F. Bishop's violet self. Mademoiselle X Heather Halo. HC 1966.

IRIS CORSAGE (Eva T. Smith, R. 1966). Sdlg. 64-348. Novelty TB, 34", ML, GY5P. S.pale chartreuse; F. chartreuse blended with ivory and gold; tangerine beard. Margie Lee X Mary Randall x Palomino.

*IRISH CHARMER (Pickard, TB, R. 1965). Pickard 1966.

IRISH CLOUD (Kelway & Son, R. 1966). Sdlg. 645. TB, 38", L, V1P. Pale violet self. Elizabeth Arden X Magic Hills.

IRISH LILT (Alta Brown, R. 1966). Sdlg. M 843-3. SDB, 11", E, W4BG. S. ivory white; F. blue-green with cream beard. Irish Doll X Aqua Green.

ISLE OF DREAMS (Alta Brown, R. 1966). Sdlg. M 531. IB, 26", E, B1P. S. pale icy-blue; F. near white; white beard. M 202-25 (Snow Flurry x Snow Elf) X Whole Cloth.

*JAIPUR (Plough, TB, R. 1965). Eden Road 1966.

JAKARTA (Gordon Plough, R. 1966). Sdlg. 62-189-19. TB, 38", EM, W2V. S. white bordered at base methyl violet (Wilson 39/2) and lightening at tip to 39/3; F. snowy white; hafts Campanula violet (37/1) in straight line across beard; light stippling along edges; center of F. dotted; beard white with each hair tipped buttercup yellow, lightening to white at tip. Sib to Viet Nam X Tea Apron.

JANE BEER (Tom Craig, R. 1966). Sdlg. 66 B 2. TB, 42", EML, V5L. S. amber white, strongly blended lilac; F. shimmering lilac with warmer hints. Bacchus X Melodrama. Craig 1966.

JANET MARIE (Ferris D. Gaskill, R. 1966). Sdlg. 965-10. TB, 34", M-L, Y1Lcm. Aureolin yellow self (Wilson 3/1) with lighter area (3/3) below deeper yellow beard; ruffled and laced. 61-18 (Mary Randall x Truly Yours) X Mooncrest.

JANICE RUTH (Eugene Buckles, R. 1966). Sdlg. 63-66. TB, 32", M, V1L. Medium lavender self; lacy and ruffled. Amethyst Flame X Orchid Jewel. RTG award 1966.

JANNI (Mrs. J. R. Hamblen, R. 1966). Sdlg. H59-73. TB, 30", M-L, O1P. Medium pink self; cerise beard. Fair Luzon x Garden

- Party X Fleeta. HC 1966.
- *JAPANESE GARDEN (E. Smith, BB novelty, R. 1965). Smith 1966.
- *JAUNTY JERRY (Austin, BB re, R. 1965). Rainbow 1966.
- JAZZY FALLS (Tim Craig, R. 1966). Sdlg. 61-L. Arilbred, 22", E, YlPcm. Marguerite yellow self with odd port wine plic pattern. Riptide X Wilks onco. Craig 1966.
- JEWEL DROP (Mark E. Rogers, R. 1966). Sdlg. 64-L-10-A. BB, 22", M, RV1L. Medium orchid self with lighter area around yellow tipped white beard; laced and heavily ruffled. Ever and Ever X Orchid Jewel.
- JEWELED FLIGHT (Mrs. J. R. Hamblen, R. 1966). Sdlg. H61-48. TB, 30", M-L, W1R. Velvety white self with minute gold edging; gold hafts; nasturium red beard. Mazatlan X Coraband sib. HC 1966.
- JEWELLED SEA (W. A. Payne, R. 1966). Sdlg. 1308. Jap, 36", LM, V1Dcm. Royal purple self with white halo and veins; styles white tipped royal purple. 799 (Warei-hotei x 226) X Mai-ohgi.
- JEWEL TONE (Schreiner's, R. 1966). Sdlg. W 459-A. TB, 37", EM, R1D. Rich glossy ruby-red self; F. with heavier nap; dull brown beard. R 348-A (((L 572-1 ((I 338-1 (Casa Morena x Burmese Ruby)) x ((I 244-1 (Orelia x Pacemaker))) x Trim X Tomeco. Schreiner's 1966.
- JOHN LESLIE (E. & A. Watkins, R. 1966). Sdlg. 63-31-A. TB, 32", M, Y4B. S. pale yellow; F. medium blue. Kiss Me Kate X Corsage.
- JOHNNY'S CHOICE (Ralph Johnson, R. 1966). Sdlg. J-59-3. TB, 34", M, W1Y. Warm white self. Desert Song X Cliffs of Dover.
- JOHNNY'S PRIDE (Ralph Johnson, R. 1966). Sdlg. J-60-5. TB, 32", M, O1L. Light orange self; light yellow haft; tan-gerine beard. Cliffs of Dover x Fay 55-34.
- JOHN'S DISCOVERY (Elbert W. Smith, R. 1966). Sdlg. 60-ES-6-3. TB, Y1Fcm. Deep throated yellow self with darker edging on both S. and F. Tally-ho X Escapade.
- *JOLLY JANE (Simonson, MDB, R. 1963). Northwest Hybridizers 1966.
- JOLLY JOKER (Alta Brown, R. 1966). Sdlg. M 987-10. IB, 22", E, Y2R. S. yellow ground, stitched and sanded with rose-brown; F. yellow with just edge stitched and sanded rose-brown; orange-brown beard. Knotty Pine X Lucy Lee.
- JUDEAN MOON (Leo Clark, R. 1966). Sdlg. 64-C-R2. Oncocyclus, 24-26", E, YlPcm. S. domed and swirled, rich creamy-yellow with deeper yellow toward midribs; F. wide and recurved, same color as S; rich deep yellow signal. ((55-14 x 55-1) x Judean Cream x 55-44LB)) X (Austin W118 x Heliox).
- JULIA M (Reuben Smith, R. 1966). Sdlg. 62-44. TB, 36-38", M, Y1Fcm. S. saffron yellow; F. same, heavily washed cinnamon. Solid Gold x Ola Kala X Hammer Bee x 45-54.
- *JUNA KAY (Buckles, TB & re, R. 1965). Buckles 1966.
- JUNE PROM (Alta Brown, R. 1966). Sdlg. M 735-7. IB, 22", E, B1Lcm. S. light blue; F. same with blue-green pattern at haft

around blue beard. Snow Elk X Lovilia.

*JUNE SYMPHONY (R. Brown, TB, R. 1965). Brown's Iris Gardens 1966.

JUNGES GRUEN (Victor von Martin, R. 1966). TB, 35", M, GY1. S. greenish-yellow; F. same, greenish overlaid. SQ72 x Fire-cracker X Olivette.

JUNGLE COUNTRY (Steve Moldovan, R. 1966). Sdlg. 66-4. TB, 34", E, V5D. S. brown-purple; F. violet-purple; brown hafts; gold beard. Martel X Allegiance.

JUNGLE KID (Alta Brown, R. 1966). Sdlg. M 512-10. IB, 16", E, RV5D. Blend of smoky-purple and brown; smoky blue beard. M 34-4 (Sable x pumila sdlg.) X Edenite.

#JUNIOR PROM (K. V. Mellott, TB, R. 1960). Name released to Joseph J. Ghio.

JUNIOR PROM (Joseph J. Ghio, R. 1966). Sdlg. 62-146U. BB, 26", ML, W1B. Blue-white self including beard. Nina's Delight X Frosted Starlight.

KALIFA KAN (Tim Craig, R. 1966). Sdlg. 68. Arilbred, 21", E, V4Ycm. S. pale white, minuet violet and lilac pink; F. pale seafoam yellow with conspicuous clematis; pink-blue signal. White Ruffles X Kalifa Gulnare. Craig, 1966.

KATE'S COUSIN (Mildred Brizendine, R. 1966). Sdlg. B-3-62. BB, 22-24", EM, W1Bcm. S. white; F. white with lavender blue border. Kiss Me Kate X Whole Cloth.

KATY LUCILE (H. W. Neubert, R. 1966). Sdlg. 245-64A. TB, 38", E, BW4VD. S. blue-white, fading to near white; F. dark violet; lemon beard tipped violet. Violet Haven X Whole Cloth.

KELITA ADAH (R. A. Rich, R. 1966). Sdlg. OLB-62-1A. Arilbred-median, 9", VE, V4Y. S. lavender, veined deeper; F. gold overlaid rose; red signal; yellow beard and styles. Austin OY-164 (pure oncocyclus hybrid) X Pogo. Melrose 1966.

KELITA HELBAH (R. A. Rich, R. 1966). Sdlg. OLB-62-1G. Arilbred-median, 7-12", VE, Y3cm. S. light yellow, deeper midrib; F. medium yellow, red-brown rays; styles medium yellow; beard deeper. Austin OY-164 (pure oncocyclus hybrid) X Pogo. Melrose 1966.

KELITA ITHRA (R. A. Rich, R. 1966). Sdlg. OLB-62-1D. Arilbred-median, 12", VE-E, W4Y. S. white; F. light yellow; greenish yellow area around yellow beard. Austin OY164 (pure onco-cyclus hybrid) X Pogo. Melrose 1966.

KELITA JAROAH (R. A. Rich, R. 1966). Sdlg. OLB-62-1C. Arilbred-median, 12", VE, Y3PL. S. creamy-white, gold midribs and veining; F. medium yellow; deeper yellow spot; yellow beard and styles. Austin OY164 (pure oncocyclus hybrid) X Pogo. Melrose 1966.

KELITA JETHRO (R. A. Rich, R. 1966). Sdlg. OLB-62-1E. Arilbred-median, 9", E, RV4RD. S. deep red-violet; F. deep mahogany-red; dark signal. Austin OY164 (pure oncocyclus hybrid) X Pogo.

KELITA JEZEBEL (R. A. Rich, R. 1966). Sdlg. OLB-62-1F. Aril-

bred median, 10-12", E, R05D. S. medium red-brown; F. deeper red-brown; darker signal; yellow beard; medium red-brown styles. Austin OY164 (pure oncocyclus hybrid) X Pogo. Melrose 1966.

KELITA ZIPPORAH (R. A. Rich, R. 1966). Sdlg. OLB-62-1B. Arilbred median, 8", VE, V4Y. S. lavender; F. yellow overlaid buff-rose; deep rose area around yellow beard. Austin OY164 (pure oncocyclus hybrid) X Pogo. Melrose 1966.

KID SPARK (Tim Craig, R. 1966). Sdlg. 244A. IB, EE, W1Ycm. Oyster white self with distinct chartreuse spot on F. Steeplechase x Bob's Blue X Little Darkie. Craig 1966.

KIMZEY (Glenn Corlew, R. 1966). Sdlg. 224-4B. TB, 34", M, Y04Wcm. S. peach-pink; F. warm white edged peach-pink; tangerine beard. Valimar X ((Snow Flurry x Pink Formal) x Frost and Flame)). HC 1966.

KINDRED SPIRIT (Mrs. John F. Hardy, R. 1966). Sdlg. D8-4. TB, 36", M, Y1F. Chrome yellow self; orange beard; white area below beard; no haft markings. B34 (Ola Kala x Nylon) X B13 ((Flamingo sdlg. x (sib to Salmon Shell x Pink Fulfillment))).

KING HAROLD (Dr. C. C. Hall, R. 1966). Sdlg. L10/l. TB, 40", M, Bl. Mid-blue self. Blue-for-Beryl X Arabi Pasha. BIS Show Commendation 1966.

KING SIZE (Tim Craig, R. 1966). Sdlg. 10. Arilbred, 26", E, VBlP. Pale afterglow blue self. Cascadian X Kalifa Gulnare. Craig 1966.

KISS OF LEMON (Gordon Plough, R. 1966). Sdlg. 62-31-32. TB, 32", EML, Y1Lcm. S. canary yellow (Wilson 2/2); F. same with large white oval blotch below beard; white beard with each hair tipped canary. Lemon Bowl X Buttercup Bower.

KNEE HIGH (Luella Noyd, R. 1966). Sdlg. N61-44-62A. BB, 28", EM, W1O. White self with coral-pink beard. Lipstick X Frost and Flame.

KOBOLD (Dr. Hertha van Nes, R. 1966). MDB, 6", EE, Y4RV. S. yellow, slightly waved; F. brown-purple, deep color with well defined narrow border in yellow; orange-yellow beard; no branching. ((San Francisco x pumila) x chamaeiris)) X unknown.

*KONTIKI (Gordon Plough, IB, R. 1965). Eden Road 1966.

KRISTI LYNN (Mrs. W. T. Dunn, R. 1966). Sdlg. 1-65-D. TB, 34", M, W2B. White plicata with a wide fringe of blue. Paper Doll X Spooned Phantom.

KROENINGS MANTEL (Victor von Martin, TB, R. 1966). See Crimson Mantle.

*LACE CAPER (Warburton, SDB, R. 1965). Old Brook and Warburton 1966.

LACEDALOT (Merle Daling, R. 1966). Sdlg. D-101. TB, 30", EM, Y1L. Sulphur yellow self (Wilson 1/3) with darker hafts; aureolin beard. Cream Crest X Queen's Lace x (Sugar Plum x Clara B.).

*LACED GOLD (Noyd, TB, R. 1965). Noyd 1966.

*LACE GALORE (Noyd, TB, R. 1965). Noyd 1966.

*LADY HELEN (Vallette, TB, R. 1963). Tell's 1966.

LADY RIVER (Kelway & Son, R. 1966). Sdlg. 703, TB, 30", M, YOLP. Apricot pink self. Melody Fair X Party Ruffles.

LAINELA (Dr. Peter Werckmeister, R. 1966). IB, 20", E, OR5D. S. reddish brown; F. same, somewhat darker; flared and ruffled. ((Matternhorn x Casa Morena) x Serb. pumila 8 - greyish violet) X sister of same family.

LA JUANA (Rex Brown, R. 1966). Sdlg. 61-21-10. TB, 38", EM, YO5P. S. peach-pink; F. blend of lemon yellow and peach pink, lighter in center; bushy tangerine beard. Green Quest X Jan Elizabeth.

LAKE MATTAWA (Frederick W. Gadd, R. 1966). Sdlg. 6B-42. Arilbred, 38", E, BlF. Medium blue self; black beard. 52-37 (Spanish Peaks x Jane Phillips) X Capitola.

LAKE WASHINGTON (Rex Brown, R. 1966). Sdlg. 60-32-7. TB, 36", EM, BlF. Heavily ruffled blue self (Wilson Lobelia blue 41/1); ivory white beard. Eleanor's Pride X blue sdlg. ((Snow Flurry x (Helen McGregor x Chivalry)).

*LAND OF PROMISE (Watkins, TB, R. 1965). Fairmount 1966.

LANTERN LIGHT (Ronald J. Beattie, R. 1966). Sdlg. B-62-2. TB, 36", E, Y4W. S. soft yellow; F. white bordered soft yellow; some plicata markings at haft. 59-1 ((57-31 (Tiffanja x Quandrille sib) x Irma Melrose) X Jubilation. Old Colony 1966.

LA SCALA (Steve Moldovan, R. 1966). Sdlg. 66-19. TB, 34", M, WLTcm. S. white flushed pink at base; F. white, veined green, 1/8" pink edge; salmon pink beard. Fay 62-14 (Champagne Music sib x Morning Breeze) X 63-1 (New Arrival x One Desire).

LAUNCHING PAD (Maynard Knopf, R. 1966). Sdlg. 65-16. TB, 36", M, Y4Wcm. S. sulphur lemon; F. white rimmed sulphur lemon. Valimar X Denver Mint.

LAUREL OAK (Tom Craig, R. 1966). Sdlg. 62-117. TB, 36", E-M, 05D. S. chestnut to copper-leaf; F. copper-leaf to chestnut, washed violet. (Poway x Poway) X Nuez.

*LAURIE (Gaulter, TB, R. 1965). Mission Bell 1966.

LAVENDER LASS (Alta Brown, R. 1966). Sdlg. M 288. SDB, 11", E, VBLP. S. sea lavender (Wilson 640/2); F. same with faint suggestion of spot pattern; lavender beard. Dark Fairy X Dark Fairy.

*LAVENDER MISS (Carstensen, TB, R. 1965). Nick's 1966.

LAZY RIVER (Georgia M. Hinkle, R. 1966). Sdlg. X-5-3. TB, 34", M-L, BLL. Light blue self; creamy white beard; full and ruffled. Eve X Dear Bob. HC 1966.

LEAH (Tim Craig, R. 1966). Sdlg. 40 onw. Arilbred, 30", EML, V5. Royal purple, petunia violet blended. Mary McClellan X Tom's new black onco. Craig 1966.

LEE'S DELIGHT (Clarence Protzmann, R. 1966). TB, 34", M, W2V. S. white, edged cobalt-violet with hint of burnt umber; F. same. Taholah X Rosy Veil.

LEMON DOLL (Beatrice Warburton, R. 1966). Sdlg. C-504. I.

- pumila species type, 4", VEE, Y3L. S. bright lemon yellow (Nickerson 5Y9/9); F. chrome yellow with velvet patch; white beard. (Cretica x Carpathia) X unknown.
- LEMON DREAM (Alta Brown, R. 1966). Sdlg. M 140-10. SDB, 14", E, Y3L. S. light lemon-yellow; F. deeper lemon and lighter at edges; bright yellow beard. Green Spot X Florinda.
- *LEMON TREE (Bennett Jones, TB, R. 1965). B. Jones 1966.
- *LENNA M (Roberts, SDB, R. 1964). Roberts 1966.
- *LEO TEE (Leo Clark, Arilbred, R. 1961). Sierra View 1966.
- LE ROY JACKSON (Collie Terrell, R. 1966). Sdlg. T63-58. TB, 36", M, OLP. Chinese coral self (Wilson 614/2). T60-82 (Hidden Gift x Miss St. Louis) X Reta Fry.
- LETZTES AUFGEBOT (Dr. Hertha van Nes, R. 1966). Sdlg. F-1002. MDB, 8", E-L, VLL. Medium orchid self; white beard. Unknown X unknown.
- LIBELLE (Dr. Hertha van Nes, R. 1966). SDB, 10-12", E, BlL. Light blue self, almost turquoise; F. slightly darker in middle; white beard; narrow leaves. Fairy Flax X unknown.
- LIBELLULA (Dr. Peter Werckmeister, R. 1966). IB, 20-24", E, WLB. S. white with blue shimmer; F. same, flaring. Lilli-White X F₁ Lilliput sdlg.
- LIBERTY ROYAL (Tim Craig, R. 1966). Sdlg. 328-B. TB, 21", M, V3FD. S. royal purple; F. bright dark royal purple. Mary McClellan X Storm Warning. Craig 1966.
- *LIGHT AND LOVELY (Rees, TB, R. 1965). Imperial 1966.
- LIGHT CAVALRY (Bennett Jones, R. 1966). Sdlg. I-27-1. IB, 18", M, RLD. Indian Lake (Wilson 826/3) self with crimson hafts. Captain Gallant X M114 ((Carpathia x Lapham C46) x Red Rockette)). HC 1966.
- *LIGHTNING RIDGE (O. Brown, TB, R. 1965). Brown's Sunnyhill Gardens 1966.
- *LIGHT OF PERTH (A. Watkins, TB, R. 1965). Fairmount 1966.
- LIGHTS OF PARIS (R. A. Rich, R. 1966). Siberian, 40", L, WLY. White self with deep yellow hafts. Unknown parentage. HC 1966.
- *LIKE MAGIC (G. Carlson, TB, R. 1965). Eden Road 1966.
- LILA CAROL (Eugene Buckles, R. 1966). Sdlg. 64-1. TB, 34", M, RLL. Deep rose-pink self. Lilac Bouquet X Pretty Carol. HC 1966.
- LILAC GARDEN (W. A. Payne, R. 1966). Sdlg. 861. Jap, 41", M, RVlcm. Light ground with mulberry purple shading, lighter at margin. Lilac Pageant X Cobra Dancer.
- LILAC RIDGE (Caroline DeForest, R. 1966). Sdlg. 63-43A. TB, 34", M, VLLcm. S. "shot silk" pattern of lilac and golden brown; F. lilac, ruffled at ends; gold-brown haft. 56-21 (Lura x Frances Kent) x Palomino X Candle Magic.
- *LILAC SHADOW (Roberts, SDB, R. 1965). Roberts 1966.
- *LILTING LAUGHTER (Valette, TB, R. 1964). Tell's 1966.

- *LIME SHADOWS (L. Hooker, TB, R. 1965). Tell's 1966.
- LINDA BURNS (Harvey R. Burns, R. 1966). Sdlg. 60-6. TB, 32", M, BlP. Oriental blue (Wilson 47/3) self. (Snow Flurry x Chivalry sdlg.) X Forest Maid.
- LINES OF BEAUTY (Luella Noyd, R. 1966). Sdlg. N62-75-3. TB, 36", M-L, W2V. S. glistening light orchid edged deeper; F. white with deeper orchid edges; tangerine beard. Parentage involves Teacher's Pet, Lady in Gold, Spindrift, Melitza, Pin Up Girl, New Adventure, etc.
- LION CUB (Elizabeth Wood, R. 1966). Sdlg. 64-65A. MDB, 8½", M, Y05L. S. light buff; F. buff with overlay of bluish brown, yellower toward haft. Yellow haft markings and beard, shading to bluish-white at end. Zing X ((Little Shadow x Zwanimir) x (April Morn x Frost Glint)).
- LION OF JUDAH (Hazel E. Schmelzer, R. 1966). Sdlg. 7-4-11. TB, 35", M, R5D. S. rose-red and black-red blend; F. same; thick bronze beard. Ruby Lace X La Negra Flor.
- LITTLE BLACKFOOT (Mattie Reinhart, R. 1966). Sdlg. D62-10. SDB, 12", E-M, RV1DD. S. very dark red-black; F. velvety red-black; red-black beard. Brassie X Inky.
- LITTLE LENA (Mrs. John Bierman, R. 1966). Sdlg. 763. Chamaeiris, 6", M, YlFcm. Yellow self marked red-brown on F. Path of Gold X Ib-Mac.
- *LITTLE MARK (Quadros, BB, R. 1963). C & A Iris Gardens and Tell's 1966.
- LITTLE NELL (C. W. Tompkins, R. 1966). Sdlg. 61-40. BB, 17", EM, R5D. Red blend. Savage X (Brigadoon x Rampage). Fleur de Lis 1966.
- LITTLE ONE (David W. Lyon, R. 1966). Sdlg. 56-43-1. BB, 15", V3FD. Dark violet bitone. Black Taffeta X Sable Night. Robert Young 1966.
- *LITTLE RUBIENT (Muhlestein, IB, R. 1965). Tell's 1966.
- LITTLE SHAVER (Leona P. Mahood, R. 1966). Sdlg. A-19-20. MDB, 4-5", E, YlF. S. bright yellow; F. same with darker spot; very dark violet beard. Blue Whiskers X Blue Whiskers.
- *LITTLE SMOOTHY (Carstensen, MDB, R. 1965). Nick's 1966.
- *LITTLE WHIRLYBIRD (Rundlett, IB, R. 1965). Old Brook 1966.
- LITTLE WONDER (Tim Craig, R. 1966). Sdlg. B4R3-7. IB, 15", EE, V1D. Fireweed and grapejuice self. Bob's Blue X Black Baby. Craig 1966.
- LORD WARDEN (J. D. Taylor, R. 1966). Sdlg. E.36/1. TB, 33", M, YlF. Rich gold self, orange beard. Ethel Miller X Melbreak. HC BIS 1966.
- *LORNA LEE (Gibson, TB, R. 1965). Cooley's 1966.
- LOVE GODDESS (W. A. Payne, R. 1966). Sdlg. 1002. Jap, 44", M, WLY. White self tinted yellow. 425 (30 x 87) X Smiling Beauty.
- LOVE LETTERS (Keith Keppel, R. 1966). Sdlg. 63-109B. TB, 36", M-L, 05Ycm. S. light apricot flushed pink; F. straw with deeper hafts, overlaid with maroon pencilling; Indian orange

beard. Witteman 14-55 ((Pink Formal x Pink Sensation) x Claudia Rene)) X Frances Kent x Mary Randall.

*LOVELY AGAIN (R. Smith, TB & re., R. 1963). Avonbank 1966.

LOVELY GEM (Lucille J. Kavan, R. 1966). SDB, 12", E, W4Y. S. white; F. yellow. (Baria x dwarf) X Fashion Lady.

LOVE'S LABOR (Gordon Plough, R. 1966). Sdlg. 62-204-3. TB, 29", EML, W40. S. near white; F. delicate warm pink; tangerine orange (Wilson 9/4) with warmer hafts; beard tangerine, saturn red (13/1.5). ((Pin-up Girl x Baby's Bonnet) x (Gay Paree x Blakstok)) X Java Dove.

*LOVE SONG (E. Smith, BB, R. 1965). Smith's Iris Gardens 1966.

LOVETTE (Lucille Kavan, R. 1966). Sdlg. T11-1958. MDB, 5½", M, BV3RV. S. lavender; F. reddish lavender; light beard. (Brite x dwarf) X Nambe.

LUCILLE TOLMAN (Bion Tolman, R. 1966). Sdlg. 62-8-1. TB, 36", Y1Pcm. S. cream; F. cream, bordered buff. ((Spanish Peaks x Happy Birthday) x Self x Self x Self)) X White Fire. Tell's 1966.

LUCKY SPOT (Tim Craig, R. 1966). Sdlg. 245. MDB, 7½", EE, BlFcm. Steeplechase blue self with Vatican blue spot on F. Steeplechase x Bob's Blue X 128 dwarf.

ULLING DREAMS (Mrs. Edward Miller, R. 1966). Sdlg. 63-1-K. TB, 34", ME, Y5Dcm. S. mustard gold; F. same with white blotch in falls and edged with mustard-gold. Celestial Snow X Solid Gold.

*LUSTY SONG (Gibson, TB, R. 1965). Cooley's 1966.

*MADEIRA LACE (Muhlestine, TB, R. 1965). Tell's 1966.

*MAD MAID (J. M. Gibson, TB, R. 1964). Cooley's 1966.

MAERZSOMIE (Victor von Martin, TB, R. 1966). See MARCH SUNSHINE.

MAESTRO PUCCINI (Clifford W. Benson, R. 1966). Sdlg. 66-15. TB, 36", ML, O1P. Coral pink self; ruffled, wide and heavily substanced. Champagne Music X (Irish Lullaby x Jean Ann). HC 1966.

MAGIC HOUR (Eva Smith, R. 1966). Sdlg. 64-713. TB, 32-34", M, BV1P. Bluish orchid self with white area around deep tangerine beard. Rippling Waters X Lovely Lettie.

MAGIC OPAL (W. A. Payne, R. 1966). Sdlg. 855. Jap, 45", E, V1Pcm. Phlox pink with blue halo and veins. Prima Ballerina X 631 (Miss Simplicity x Imperial Robe).

MAGIC ROSETTE (Lloyd Austin by Gladys Austin, selector, R. 1966). Sdlg. 186. TB flounced, 32", ML, R5. S. blend of rose-red and buff, ruffled; F. glistening carmine; flounces carmine outside, rose-red inside. (Mulberry Snow x Ruffled Apache) X Flounced Loveliness. Rainbow Gardens 1966.

*MAHALO (Ghio, TB, R. 1964). Bay View and Old Brook 1966.

MARCELLA J. (Charles W. Stewart, R. 1966). Sdlg. 6061. TB, 36", M-L, Y5L. S. sunburst gold; F. same with deep bronze-red hafts extending over half of F. Hindu Wand X Olympic Torch.

MARCH SUNSHINE (Maerzsomie) (Victor von Martin, R. 1966). TB, 36", E, Y1F. Yellow self with light cinnamon plicata markings just below full yellow beard. Best German sdlg. 1964. Fairmount Gardens 1965.

MARION MAID (Georgia Hinkle, R. 1966). Sdlg. X-5-1. TB, 34", M-L, B1L. Medium to light blue self, cream beard to light yellow in heart; full, ruffled. Eve X Dear Bob. HC 1966.

MARION RODLEY (Marion Rodley, R. 1966). IB, 21", EM, V5Pcm. S. greyed lavender; F. greyed lavender with distinct purple spot pattern; orange beard. Tinkerbell X blue TB sdlg.

*MARMOT (Simonson, MDB, R. 1964). Northwest Hybridizers 1966.

MARSHLANDER (J. D. Taylor, R. 1966). Sdlg. D.26/1. TB, 36", L, 03. S. brown; F. chocolate. Staten Island X Bang. HC and S/T Wisley 1966. Show Commendation BIS 1965.

MASTER'S DELIGHT (Robert Innis, R. 1966). Sdlg. 2-63. TB, 36", ML, YR4V. S. buffy-rose; F. dark violet. (Marilyn C x Emma Cook) X Melodrama.

MATINATA (Schreiner's, R. 1966). Sdlg. W 190-A. TB, 39", M, RV1F. Uniform bishop's purple self including beard; silky finish; real purple color. Prince Indigo X T 480-A (((L 474-J ((L 158-A (Blue Glow x Black Belle)) x Storm Warning))) x R 632-B (First Violet x King's Choice)).

MAUVE DECADE (Charles Wm. Voris, R. 1966). Sdlg. 66-2. TB, 36-38", M-L, RV1L. Mauve self with orange beard; semiflaring and pleated. Maid of Astolat X Ice Cavern.

MAY DELIGHT (Schreiner's, R. 1966). Sdlg. R 118-7. TB, 37", L, RV1L. Cool lilac and opalescent warm pink; suggestion of fringes at edges of F. Amethyst Flame X Pretty Carol. Schreiner's 1966.

MAYFAIR PINK (Lerton W. Hooker, R. 1966). Sdlg. 24-49. TB, 38", ML, OLP. Light pink self, clean and no markings. 7B7 (involving Dolly Varden, Native Dancer, etc.) X Fleeta. HC 1966.

MEDITATE (Joseph Ghio, R. 1966). Sdlg. 63-102K. TB, 38", L, W1B. White self with faint blue tint, deeper blue in heart of flower; blue-white beard. (Pacific Panorama x By Request) X Frosted Starlight.

MEDORA (C. & K. Smith, R. 1966). Sdlg. 64-21. TB, 35", M-L, Y4Wcm. S. mimosa yellow (Wilson 602/1); F. white with narrow edge of mimosa yellow. Wisdom X Sarah Averell.

*MELENARD (Siegling, TB, R. 1963). Dow Garden 1966.

*MELODY IN BLUE (Pickard, TB, R. 1965). Cora May Pickard 1966.

*MENEMSHA (Corey, TB, R. 1963). Corey and Pride 1966.

*MERRY CHRISTMAS (Voris, TB, R. 1965). Voris 1966.

MERRY SUNLIGHT (Bennett Jones, R. 1966). Sdlg. M113-2. SDB, 12", M, Y1L. S. empire yellow; F. same with old wash around orange beard. A25-57 X M55 ((Brassie x (Carpathia x tall yellow from pink breeding))). HC 1966.

METEORIC (Albert J. Motsch, R. 1966). SDB, 10", E-M, G4Bcm. S. flushed light green; F. medium blue; style arms darker than F.; heavy green pattern on each side of beard. Green Meteor X

Matterhorn x Green Spot.

- *MICHELE LYNN (L. Freudenburg, TB, R. 1965). Freudenberg 1966.
- MIDNIGHT DREAM (H. W. Neubert, R. 1966). Sdlg. 76-63. TB, 36", M, RV1D. Plum-purple self; blue beard with tips of hairs burnt orange. Black Taffeta X King's Choice.
- *MIDNIGHT VIOLET (Swearengen, Jap, R. 1964). Swearengen 1966.
- *MILADY (Moldovan, TB, R. 1963). Moldovan 1966.
- MINNESOTA GLITTERS (Bakke-Messer, R. 1966). Sdlg. 64-5D. TB, 28", M, R05L. Deep, intense apricot overlaid with flush of pink; touch of gold in throat; deeply ruffled; dark tangerine beard. Glittering Amber X Valimar.
- MISCHIEVOUS (Ronald J. Beattie, R. 1966). Sdlg. 59-29. TB, 36", M, O1P. Light pink self; pinkish beard. B55-88 ((Snow Flurry x Fantasy) x Happy Birthday)) X B56-18 ((Tell Sdlg. x Pink Cameo) x Happy Birthday)). Old Colony Garden 1966.
- MISS CAMEO (Tim Craig, R. 1966). Sdlg. ME2. TB, 40", M, R1P. Cameo pink self. Cloudcap X June Meredith. Craig 1966.
- #MISS COQUETTE (Payne, Jap, R. 1965). Name released to Payne.
- MISS COQUETTE (W. A. Payne, R. 1966). Sdlg. 1199. Jap, 32", EM, V1Dcm. Raisin purple with white veins; many curled white styles and stamens, tinted on ends. 562 (246 x 236) X 758 (610 x 36F4).
- MISSEY REVELEY (Frank Chowning, R. 1966). Louisiana, M, 30", O3. S. cadmium orange; F. same with overlay of light red. From two unnamed Chowning seedlings.
- *MISS IDAHO (E. Smith, TB, R. 1965). Smith's Iris Gardens 1966.
- *MISS ILLINI (D. Steve Varner, TB, R. 1965). Varner 1966.
- MISS MAGIC (Gordon Plough, TB, R. 1965). Eden Road 1966.
- MISS ORCHID (Tim Craig, R. 1966). Sdlg. ME12. TB, 40", M-L, R1L. Ecclesiastic orchid pink self. Cloudcap x Orchid and Flame X LaRosita. Craig 1966.
- MISS PAM (Tim Craig, R. 1966). Sdlg. 23ME. TB, 45", M, R1L. Baby pink self. Pink Platter X Cloudcap x Nike. Craig 1966.
- MIST O'MORN (W. A. Payne, R. 1966). Sdlg. 1074. Jap, 38", LM, W1Vcm. White self densely veined blue-violet, blending lighter to margin. Hisakata X Debonair Prince.
- MISTY HILLS (Margaret Beck, R. 1966). Sdlg. 64-2X. TB, 38", M, B5Pcm. S. pale blue-white edged in gold; F. blue-white brushed pink and lavender, edged in gold; heavily laced. Lavender and Gold Lace X Spanish Peaks.
- MONA LUNA (Dr. Hertha van Nes, R. 1966). MDB, 6-8", EE, Y1L. Lemon yellow self; F. slightly more intensive; white beard. Medium high bearded iris X pumila hybrid.
- *MONSOON (Gordon Plough, TB, R. 1965). Eden Road 1966.
- MONTEZUMA'S RANSOM (Willard Rogers, R. 1966). Sdlg. 256301. TB, 34", M, Y1F. Gold self with gold beard. Inca Chief X Telluride.
- MOON MUSIC (William T. Bledsoe, R. 1966). Sdlg. 65-10. TB, 38", E-M, Y3. S. canary yellow; F. cream with canary-yellow

hafts, beard and narrow border around F. Limelight x Queens Lace X Frilly Fringes.

MOONSHADE (Thornton Abell, R. 1966). Sdlg. 59-11-1. MTB, 16", M, V1P. Pale violet self shaded deeper to center of flower. Moonchild X (Sealark x High Azure).

*MOONSPOT (Doris Foster, Arilbred, R. 1964). Tell's 1966.

MORGENGROSS (Dr. Peter Werckmeister, R. 1966). Sdlg. P.P1/74.1. TB, 40", L, V1L. Orchid self. From line breeding involving Elfenlied (Morning Splendour x Rheingauperle) and 71.01 (triploid) and Pink Plume.

MORNING KISS (James S. Tucker, R. 1966). Sdlg. 158A. TB, 34", ML, O1P. Very light pink self; pink beard reduced to crest. Fleeta X Lynn Hall.

*MOST PRECIOUS (Gordon Plough, TB, R. 1965). Eden Road 1966.

MOUNTAIN TOPS (H. Senior Fothergill, R. 1966). Sdlg. 1/7. TB, 38", VE-M, W4B. S. white; F. blue. Aerial X Whole Cloth. Show Commendation 1965.

MT. ST. HELENS (Tim Craig, R. 1966). Sdlg. BlR2 (B). TB, 38", M, W4B. S. oyster white; F. riviera. Steeplechase X Whole Cloth. Craig 1966.

*MULBERRY PIE (Swarengen, Jap, R. 1964). Swarengen 1966.

MULBERRY SPLENDOR (W. A. Payne, R. 1966). Sdlg. 1282. Jap, 38", M, Vlcm. Light ground densely veined and sanded mulberry purple; styles mulberry purple. Red Titan X 1043 (Magic Ruby x 580).

MULBERRY WINE (Steve Moldovan, R. 1966). Sdlg. 61-38. TB, 30", E-M, RV1F. Mulberry-violet self; white beard; ruffled. Regal Ruffling X Orchid Jewel. Moldovan 1966.

MUSIC HALL (Mrs. J. R. Hamblen, R. 1966). Sdlg. H60-152. TB, 36", E-M, O1P. Peach-pink self; beard deeper toned. Garden Party x (Convention Queen x Blue Clif) X Fair Luzon x (Rose-dale x Pink Enchantment).

MY BLUE HEAVEN (Charles Wm. Voris, R. 1966). Sdlg. WC66-1. TB, 34-36", E-M, VB3LF. S. light blue-lavender; F. deep blue-lavender. Unnamed sdlg. X Whole Cloth.

MYRA (Wilma Greenlee, R. 1966). SDB, 13", EM, BV1L. Blue-orchid self. Fi-Lee X Pearl Sheen. Greenlee 1966.

MYSTIC MOOD (Joseph J. Ghio, R. 1966). Sdlg. 62-185D. TB, 38", E, BV3. S. light blue-lavender; F. dark blue-lavender; self beard. 58-109J (Frosted Starlight x Rehobeth), Twilight Sonata sib X Mount Eden. HC 1966.

NATASCHA (Dr. Peter Werckmeister, R. 1966). MTB, 24", EE, YO1P. S. pale ochre with blue base; F. same. Hoogiana x lilliput sdlg. Sterile.

*NATIVE CHIEF (Gibson, TB, R. 1965). Cooley's 1966.

NATURE'S SPLENDOR (Frances Brown, R. 1966). Sdlg. 61-36B. TB, 35", M, V5D. Red-violet self, overlaid with soft rose sheen. Madamoiselle X Pretty Carol x (Cashmere x Amethyst Flame). HC 1965. Landsend Gardens 1966.

NAVAJOLAND (Dorothy Palmer, R. 1966). Sdlg. 13365A. TB, 36",

M-L, Y3D. S. honey-brown; F. lighter shade with border of honey-brown; bronze beard. ((Thotmes III x (Ranger x Bryce Canyon)) X ((First Curtain x Palmer 545A x Pink Enchantment)). HC 1966.

NEBRASKA NAVY (Allan Ensminger, R. 1966). Sdlg. 63-35. TB, 36", M-VL, W4Bcm. S. white; F. flax-blue shaded methyl violet; beard blue with yellow base. Blue Rhythm x Blue Interlude X Whole Cloth.

NELLIE CRAIG (Thomas Craig, R. 1966). Sdlg. 66 W l. TB, 36", EE-L, Wl. White self. Patricia Craig X Sylvan Stream. Craig 1966.

NEW DEW (Wolff-Hildenbrandt, R. 1966). Sdlg. 62-110-7. BB, 23", ML, W4Bcm. S. warm white; F. sea lavender violet fading to white at ruffled edge; beard and hafts bright yellow. Perfect Love X Timmie Too.

NEZ PERCE (Edward Christensen, R. 1966). Sdlg. 2F9-6. TB, 32", M, Y4RV. S. light tan; F. red-violet with brownish hafts; beard mustard. (Melodrama x Violet Victory) X ((Inca Chief x Lockwood) x (Huntsman x Quadrille)).

NIGHT HERON (James S. Tucker, R. 1966). Sdlg. 26. TB, 38", EML, B4W. S. light blue heavily infused with dark blue; F. light blue fading to white. 955C (South Pacific x Wide World) X Allegiance. HC 1966.

NIGHT LINES (J. M. Gibson, R. 1966). Sdlg. 33-1 PBlKG. TB, 36", M, W2BV. Deep blue-purple on white. Dot and Dash X Rococo.

NIGHTSIDE (Schreiner's, R. 1966). Sdlg. W 1071-A. TB, 36", L, VLDD. Very dark black-blue uniform self, silk sheen, deep blue beard. R 826-A (involved parentage incl. The Bishop, Ethiop Queen, Blue Glow, Black Belle, Storm Warning, Black Forest, etc.) X S 529-G ((O 332-1 x K 521-A) x Licorice Stick).

*NIGHT TRAIN (D. Steve Varner, BB, R. 1964). Varner 1966.

*NINETY-NINE (Swearengen, Jap, R. 1964). Swearengen 1966.

*NINEVEH (Keith Keppel, Tall arilbred, R. 1965). Keppel 1966.

*NOB HILL (Larry Gaulter, TB, R. 1963). Mission Bell 1966.

NOCTURNAL SPLENDOR (W. A. Payne, R. 1966). Sdlg. 472. Jap, 40", LM, VLDCm. Violet ultramarine self. Night Music X Rishono.

NO MISTAKE (H. H. Henkelman, R. 1966). TB, 33", E, V5P. Orchid fuchsia self. Lovely Diana X Reselected, unnumbered sdlg.

NORDIC JEWEL (Kelway & Son, R. 1966). Sdlg. 653. TB, 36", M, YOLP. Apricot pink self. Elizabeth Arden X Party Ruffles.

NORFOLK MISS (Mrs. Nick Carstensen, R. 1966). Sdlg. C 13-64. TB, 35", M, BlP. Sky blue self. Blue DeBut X Galilee.

NORMA SANTILLAN (Tom Craig, R. 1966). Sdlg. 66 V l. BB, 18", EM, VL. Cattleya to Chinese violet self; blue satin sheen on F.; pronounced blue beard. Unknown (probably Savage-Molten line X Van Turbergen regeliabred). Craig 1966.

NORTHERN SKY (Rev. Paul Folkers, R. 1966). TB, 34-36", M, W2B. Clean white edged with heavy rim of deep blue. Belle Meade X

Castle Rock.

NORTH PACIFIC (Schreiner's, R. 1966). Sdlg. S 590-B. TB, 40", ML, BLL. Very blue self; S and F exactly same hue; great deal of sheen; white beard. Galilee X M 1020-1 (((J 274-A ((50-52 x H 25-a) x (Azure Skies)) x 1846))). Schreiner's 1966.

NUNATAKR (Dr. Peter Werckmeister, R. 1966). Sdlg. O.-pu./4. MDB, 5-6", EE, V3FDcm. S. violet; F. dark violet with signal. Serbian pumila 22 x Miltonia (Regeliocyclus x Serbian pumila 11, yellow) with 36 chromosomes.

NUTMEG STATE (Frederick W. Gadd, R. 1966). Sdlg. 97-15. TB, 32", M, YOL. Medium brown self; matching beard; flaring F. Lilac Festival X 15-33 (My Happiness x Revel).

OCEAN SHORES (Gordon Plough, R. 1966). Sdlg. 61-3-2. TB, 36", ML, B3LP. Base of S. lobelia blue (Wilson 41/2) lightening to flax blue (642/2) at tip; F. blue-white with throat lobelia blue (41/3); beard orangy yellow tipped blue-white. Arctic Skies X French Flair.

ODE TO JOY (W. A. Payne, R. 1966). Sdlg. 885. Jap, 36", M, W1Vcm. White self with sanded stripes of Bradley's violet. 343 (62 x 217) X Ivory Glow.

OKAW BLUTOP (James S. Tucker, R. 1966). Sdlg. 13A. TB, 36" VL, B3L. Blue overlaid with much darker blue one-half way up; F. very light blue. 955H (South Pacific x Wide World) X 9HH (Vatican Purple x Wide World). Southern Meadows 1966.

OKAW GOLD (James S. Tucker, R. 1966). Sdlg. 123A. TB, 33", E-M-L, Y1F. Yellow-gold self. 9-53 (Mary Randall x Constant Comment) X Caribou Trail. Southern Meadows 1966.

OKAW LAVENDER (James S. Tucker, R. 1966). Sdlg. 160. TB, 32", E-M, V5L. Blend of lavender, yellow and pink. Fragrant. 916B (Mary Randall x Lynn Hall) X Truly Fair. Southern Meadows 1966.

OLD VIENNA (Carl Carpenter, R. 1966). TB, 38", M, Y04Vcm. S. golden-brown with violet cast; F. same violet with golden-brown edging. President Pilkington X Youth's Dream.

OLE (George Shoop, R. 1966). Sdlg. 60-11-3. TB, 36", EM, O1Fcm. Bright orange self; apricot area on F. B57-6 sdrgs. selfed. Shoop 1966.

*OLIVE LANGDON (Bledsoe, TB, R. 1964). Bledsoe and Terrell 1966.

OLIVE'S PRIDE (E. & A. Watkins, R. 1966). Sdlg. 58-100-d. TB, 31", M, B3P. S. cobalt blue (Wilson 44/3); F. pale flax blue; beard light blue. Ice Carnival X Land's End. Fairmount 1966.

*OLYMPIC JEWEL (Fran Smith, TB, R. 1964). Brown's Sunnyhill Gardens 1966.

OP ART (W. B. Schortman, R. 1966). Sdlg. 2216. TB fancy, 30", EML, Y20R. Self cream ground with mahogany specks. Memphis Lass X Tahola.

ORANGE FRAPPE (Charles Wm. Voris, R. 1966). Sdlg. 65-0. TB, 36", M-L, O1P. S. crepe textured orange-pink; F. same. Fiftieth State X Marian V. Croft.

ORANGE KEY (Wilma Greenlee, R. 1966). SDB, 12", E, WlW. White self with bright orange beard. Pearl Sheen X Triad (Carnpathia x Los Angeles).

*ORANGE TRIUMPH (Marsh, TB, R. 1965). James Marsh 1966.

ORCHID CHERUB (Leona Mahood, R. 1966). Sdlg. 646. MDB, 5", VE, V3LD. S. light orchid; F. dark orchid; slightly darker spot; white beard. Cretica x self X Cretica.

*ORCHID DANCER (Marsh, TB, R. 1965). James Marsh 1966.

ORCHID OVATION (Edward Christenson, R. 1966). Sdlg. 1F4-2. TB, 30", EML, V1P. S. light orchid (Wilson 634/3); F. same; beard deeper orchid. (Snow Flurry x Bonnie Dundee) X (Dream Castle x Bonnie Dundee).

*ORIENTAL HARMONY (Swearengen, Jap, R. 1964). Swearengen 1966.

ORO-GUINDA (Tom Craig, R. 1966). Sdlg. 66 B 3. TB, 36", M, Y4V. S. mustard gold; F. campanula violet; bistre green beard and hafts. Olympic Torch X Melodrama. Craig 1966.

ORPHAN ANNIE (Ruth Stephenson, Selector, R. 1966). Sdlg. 10X. MTB, 26", M, Y3LP. Pale yellow, reverse bitone. Parentage unknown.

PACIFIC SANDS (Gordon Plough, R. 1966). Sdlg. 62-113-11. TB, 33", EM, V5P. S. warm gray with pink infusion in center; F. same; beard tangerine tipped gray-blue. (Nona x Green Quest) X Emerald Fountain.

PACIFIC WATERS (Bion Tolman, R. 1966). Sdlg. 62-141-1. TB, 36", VBLF. Ruffled full violet-blue self; light lemon beard. South Pacific X Rippling Waters. HC 1965. Tell's 1966.

PAINTED APACHE (Mrs. Ray Blackley, R. 1966). TB, 32", EM, Y5cm. S. yellow, shading to rosy brown at edges and tips; F. yellow flushed rosy tan on one side, violet blaze down middle, $\frac{1}{4}$ " edge of rosy brown; bright henna-brown hafts and deep yellow beard. Grand Coulee X Lady Albright.

PALE WINGS (Jean G. Witt, R. 1966). Sdlg. 64-20-Q9. MTB, 21", M, BlP. Pale blue self. La Neige X Nambe sdlg.

*PASTEL PETITE (A. Brown, SDB, R. 1965). Brown's Iris Gardens 1966.

PATCH O'SKY (Dr. C. M. Stults, R. 1966). Sdlg. 65-04. TB, 38", M, BlP. S. sky-blue (quite pure but some violet); F. slightly deeper. 62-05 X Praiseworthy.

PAWNEE PRIDE (James S. Tucker, R. 1966). Sdlg. 224X. TB, 35", ML, BLD. Deep royal blue self. 947 (Wide World x South Pacific) X Allegiance.

PAYMASTER (Dorothy S. Palmer, R. 1966). Sdlg. 3165A. TB, 36", M, Y1F. Deep medium yellow self; matching beard; ruffled. 1362A (Riviera x involved lines) X Rainbow Gold.

PEACH (Tim Craig, R. 1966). Sdlg. MEL. TB, 40", M, Y1P. Tilleul buff-peach self. Cloudcap X Nike. Craig 1966.

PEACH BEAUTY (Mattie Reinhardt, R. 1966). Sdlg. 64-15. TB, 34", M, YOLP. Peach self, very laced; peach beard. Yellow Lace X 60-10.

PEANUTS (Ben R. Hager, R. 1966). Sdlg. M1850B. SDB, 12", E,

YlPcm. S. cream yellow; F. cream overlaid brown; violet beard. Zing X (Brassie x Brownie).

PEARL SHEEN (Wilma Greenlee, R. 1966). SDB, 13", E, YlP. Pale yellow base self, with white pearly frosted surface. Sib to Green Halo X Pearl Shell (Zantha x H503 blue pumila). Greenlee 1966.

PEARL VELVET (E. & A. Watkins, R. 1966). Sdlg. 59-4-b. TB, 30", M, VlF. Violet-purple velvet self. Ice Carnival X Christopher Robin. Fairmount 1966.

PEN PAL (Leona P. Mahood, R. 1966). Sdlg. TI 6612. MTB, 20", VL, WlVcm. S. white; F. same covered with fine purple ink lines. Drady x dwarf X unknown.

*PERFUMED LACE (Tams, TB, R. 1965). Tell's 1966.

PERSIAN ART (Doris Foster, R. 1966). Sdlg. 65-20-5. Arilbred, 27", E-M, V3cm. S. lavender, bordered and veined brown; F. rose-violet, bordered brown; styles lavender, tipped brown; beard and pollen bright blue; white haft with brown veining. Saffron Charm x (arilbred sdlgs. GM8 x MG8) X iris species stolonifera conicle. Tell's 1966.

PERSIAN JEWEL (Herbert Schafer, R. 1966). Sdlg. 16-06. TB, 32", ML, W2RVP. S raspberry-pink with lighter area in center; F. white ground, raspberry-pink edges; beard orange-yellow. Dreamcastle x (Pink Formal x Heritage) X Fleeta.

PERSONALITY KID (Jo Anne Tufts, R. 1966). Sdlg. D36-4. MTB, 18-20", E, WlVcm. S. white background with light violet markings (cupped); F. white ground with deep purple lines from haft to purple tip. I. reginae X Widget.

*PERSONALITY QUEEN (Danielson, Arilbred, R. 1965). Mount Clare 1966.

PIKES PEAK (Frank J. Foster, R. 1966). Sdlg. FF21-1. TB, 38", M, WlB. Cool white self with white beard tinged yellow. (Snow Goddess x Sky Drifter) X (Pacific Panorama x Sky Drifter). Mesa Iris Gardens 1966.

PINK AMBER (Earl Roberts, R. 1966). Sdlg. 65R8. SDB, 14", E, OlPcm. S. pale pink; F. same with buff-pink spot and amber-chartreuse haft marks, beard tipped red. (Tall orchid sdlg. x Barium Gold) X ((Twilight Sky x white pumila) x (Desert Song x white pumila)).

*PINK BONNY (L. Freudenburg, TB, R. 1965). Freudenburg 1966.

PINK CUSHION (Alta Brown, R. 1966). Sdlg. M 474-2. SDB, 12", E, OlP. Clear pink self (Wilson 412/2); tangerine beard. M 62-7 (Memphis Belle x Carpathia) X sister sdlg.

PINK DARLING (Alta Brown, R. 1966). Sdlg. 60-99-28. BB, 24", EM, OlP. Clear pink self; carrot-red beard. Techny Chimes X Yellow Dresden.

PINK DIVINITY (Esther F. Tams, R. 1966). Sdlg. 18-63. TB, 34", E-M, OlPcm. Clear medium pink self with white flush down center of F.; red beard; ruffled, and lightly laced. L'lita X Arctic Flame.

PINK FRINGE (Nathan H. Rudolph, R. 1966). Sdlg. 63-60. TB, 34", M, RlP. S. pink (Wilson 420/2); F. same, lighter in center; pink beard. 61-78 (Pink Ice x 59-61) X 61-30 (Pink

Ice x 59-55). HC 1966.

PINKIE LEA (Tom Craig, R. 1966). Sdlg. 63-0-39. TB, 36", EM-M, VRL. Rosebloom self. Miss Peach X (Pink Formal x Goodun).

*PINK INTENSITY (Meyer, TB, R. 1965). Tell's 1966.

*PINK MIDGET (A. Peterson, IB, R. 1962). Old Brook and Peterson 1966.

PINK PERSONALITY (Dorothy Christie, R. 1966). TB, 42", R1P. Cool pink self with red beard. (Pink sdlgs. x Pink Enchantment) X Pink Enchantment.

PINK PLATTER (Tom Craig, R. 1966). Sdlg. 63-0-5. TB, 30-34", EM-M, OR1L. Rose dawn self (gray light orange-red). (Pink Formal x Goodun) X (((Mt. Washington x Flora Zenor) x Cheri) x Beaucatcher))).

PINK WHISTLE (L. R. Smith by F. E. Hanson, Selector, R. 1966). Sdlg. 63-7P. TB, 32", M, R1P. Clear pale pink self; darker pink beard; hugh ruffled style arms, slightly darker. June Meredith X Fleeta.

PIPE DREAM (C. W. Tompkins, R. 1966). Sdlg. 63-52. TB, 44", M-VVL, R1L. Chamois pink self. Herald Angel X ((Apple Valley x ((Clarion Call x (Gaulter's F. Kent x Palomino)))). Fleur de Lis 1966.

PIROLA (Siegfried Ziepke, R. 1966). IB, 14-16", E, W1Ycm. S. cream-white; F. same with olive spot in middle; white beard. Green Spot x yellow lilliput sdlg.

PIXAVAR (Earl Roberts, R. 1966). Sdlg. 66R22. MTB, 20", L, Y4Wcm. S. vivid yellow; F. white veined and striped in purple with narrow yellow edge; yellow beard. Pixakeet X I. variegata.

PIXIE CIRCLE (Caroline DeForest, R. 1966). Sdlg. 64-31. BB, 24", M, V1D. Deep violet self; dark beard; ruffled. (First Violet x Violet Hills) X Mountain Music.

*PIXIE PASTEL (H. Stevens, SDB, R. 1965). Old Brook 1966.

PIXIE SKIES (Mrs. J. R. Hamblen, R. 1966). Sdlg. M60-6. IB, 25-28", EML, VBL. Violet-blue self. Blue Denim X (Snow Flurry x Chivalry). Mission Bell 1966.

PLATTE VALLEY GOLD (Mrs. T. C. Lamoreaux, R. 1966). Sdlg. L-62-M1. TB, 36", M-L, Y1F. Deep yellow self with tiny spot of white at tip of near orange-yellow beard. Miogem x unknown.

PLEASANT VALLEY (Leo Clark, R. 1966). Oncocylus, 10-12", E, Y1Pcm. Creamy yellow self with brilliant yellow signals; S. domed; F. wide, rounded and recurved. 55-44 X (Austin W118 x G40).

PLICUTIE (Alta Brown, R. 1966). Sdlg. M 624-3. SDB, 13", E, W2VL. S. pure white, stitched with orchid at edges; F. pure white with narrow edge of orchid stitching, deeper orchid crest, cream white beard, tipped orchid. Rococo X Cretica (pumila).

PLUSIA (Dr. Peter Werckmeister, R. 1966). Sdlg. 0.-pu./l. MDB, 5-6", EE, VB1D. S. dark blue; F. dark blue with darker signal. Serbian pumila 22 X Miltonia (Regeliocyclus x Serbian pumila 11) with 36 chromosomes.

- POLISH (Tim Craig, R. 1966). Sdlg. 93A. IB, 21", EE, R1D. Dark red-rose ebony self; wide chrome yellow beard. Tom's Red X Black Baby. Craig 1966.
- POP O'SHA (Stephana Woodside, R. 1966). TB, 38", EM, BlP. Sky blue self. Symphony X Ribbon Round.
- *PORTO BELLO (Wills, TB, R. 1963). Wills 1966.
- *PORT OF CALL (Hager, Spuria, R. 1965). Melrose 1966.
- POWDER AND PAINT (W. A. Payne, R. 1966). Sdlg. 741. Jap, 40", E, W1Vcm. S. white lightly edged Rood's violet; F. white very lightly sanded Rood's violet. Ten-no-hagaroma X 80 (Miss Simplicity x Imperial Robe).
- POWDER RIVER (Mark E. Rogers, R. 1966). Sdlg. 63-99-A. TB, 31", M-L, OY5F. S. amber with violet infusion; F. yellowish amber with veining; orchid welling from tip of beard; lower half edged in yellowish beige; beard yellow with orange; ruffled, fluted and laced. Caribou Trail X Glittering Amber.
- POWER AND GLORY (Luella Noyd, R. 1966). Sdlg. N64-22-65B. TB, 33", M-L, R1D. Red self with brown-red beard. Jungle Fires X Apple Cup.
- PREAMBLE (Keith Keppel, R. 1966). Sdlg. 61-27B. IB re., 18", E, W2V. S. blue-white fading to pure white; F. white with $\frac{1}{2}$ " plicata border of veronica violet; white styles flushed pale violet; white beard. Sass F53-1 (Dark Melody sib x Dark Melody) X (Progenitor x Royal Band).
- PRETTY ONE (H. W. Neubert, R. 1966). Sdlg. 109-63B. TB, 36", EM, O1P. Deep pink self, red beard. Pink Enchantment X Mary Randall.
- PRIMROSE GOWN (Ernest G. B. Luscombe, R. 1966). Sdlg. 4/64/7. TB, 36", M, Y4Wcm. S. primrose yellow; F. white with pale primrose margin; hafts deeper yellow; orange beard. Mauve Vision X Happy Birthday.
- PRINCESS LESCHI (Charles Carper, R. 1966). Sdlg. 59-26. TB, 36", M, Y4Vcm. S. light Empire yellow (Wilson 603/2); F. pastel orchid with 3/8" border around edge color of S.; yellow beard with light blue tip; ruffled. Snow Flurry X ((Alpine Glow x (National White x Spring Sunshine))).
- PROLIFIC (Leo T. Clark, R. 1966). Arilbred, 30", EML, YOP4R0cm. S. light creamy-pink; F. henna brown with huge signals of deeper brown. Clark sdlg. (light blue sdlg. x Kerr 53-44) X Clark sdlg. (Kalifa Baltis x Jallah Effendi). Sierra View 1966.
- PROLOGUE (Jesse Wills, R. 1966). Sdlg. 5-61. TB, 36", E, R1M. Rose-red self. Donelson X (Technicolor x red sdlg.).
- PROTEGE (Ben Hager, R. 1966). Sdlg. S139B. Spuria, 36", L, B4Wcm. S. medium blue; F. white veined blue. Golden Lady X I. carthaliniae.
- *PROUD BEAUTY (Schmelzer, TB, R. 1962). Schmelzer 1966.
- *PURPLE DUET (Raymond Smith, TB & re, R. 1965). Smith 1966.
- *PURPLE PEACOCK (Swearengen, Jap, R. 1965). Swearengen 1966.
- PURPURMEER (Dr. Hertha van Nes, R. 1966). Sdlg. 0-1004. SDB, 10-12", E, RV3FD. S. brilliant purple; F. somewhat darker

- purple, velvety; cream beard. Jerry Rubin X Burchfield.
- PUSSYCAT (Hazel Schmelzer, R. 1966). MDB, 7", E, GlPcm. S. pale green; F. same with deep green lines from white beard. Green Spot x unknown.
- QUEEN O' QUEENS (G. W. Holleyman, R. 1966). Sdlg. 63-39. Louisiana native hybrid, 31", L, WlYcm. Almost pure white self with light cream buds; ruffled; chartreuse base from which 3 lines of same color extend to within 2" of end of floral part. Holley yellow sdlg. 6 X Redburn's Lady Florence.
- RABENSTEIN (Dr. Peter Werckmeister, R. 1966). TB, 36", L, R05D. S. muted red-brown; F. red-brown. Rubin sdlg. (Steffen's Pascha x Orloff) X Tall Chief.
- *RADIANT APOGEE (J. M. Gibson, TB, R. 1964). Cooley's 1966.
- RADIANT DAWN (Emma Cook, R. 1966). Sdlg. 6063. TB, 36", M, Y40. S. between massicot yellow and white (Ridgway), pinard yellow at center, style arms same; F. phlox pink; light cadmium yellow beard. Sdlg. 8459 X Pretty Carol HC 1966.
- RAIN FOREST (Gordon Plough, R. 1966). Sdlg. 61-128-14. TB, 33", EML, V5L. S. grayed lavender blending to gray-buff on edges and tip; F. gray-buff with tones of willow green (Wilson 000862/3) centered and blended gray-lavender; hafts blended gray-brown with some veining; beard lavender with each hair tipped mustard-yellow. (Nona x Green Quest) X Jungle Shadows.
- RASPBERRY FLIP (Alta Brown, R. 1966). Sdlg. M 1065. IB, 24", E, RV1L. Raspberry rose-pink self with bright tangerine beard. 59-22-3 (Irene Brown x May Hall) X Tangarose.
- RASPBERRY QUEEN (Mrs. Ralph Stone, R. 1966). Sdlg. 2-64. TB, 32", M, RV1L. Raspberry light self. Pink Formal X Pink Sensation.
- REAL TAN (Patricia Craig, R. 1966). Sdlg. P 8-1. TB, 36", E, R5. S. auburn; F. chestnut (blazed violet). Poway X Bang x (Savage x Molten).
- REBECCA TOWNE (Towne R. Abercrombie, R. 1966). Sdlg. 16-GP-LD-1965. TB, 40", M, Y1F. Straw yellow self with tract of light green in haft and definite greenish cast on underside of F.; fiery red beard. Green Pastures X Lucky Day.
- *RED DUET (R. Smith, TB & re, R. 1965). Raymond Smith 1966.
- REDNEYELLA (Cora May Pickard, R. 1966). Sdlg. C-1634. BB, 20", EM, Y2R. S. yellow; F. bright red with ribbon of yellow all around; yellow underside. Inca Chief X ((Hall 46-45 x Ola Kala) x Fabulous Kate)) x (Apricot Glory x Inca Chief). HC 1966.
- RED HEART (Alta Brown, R. 1966). Sdlg. M 902-1. SDB, 13", E, BV4R. S. lavender-blue; F. bright oxblood-red (Wilson 823/1) with $\frac{1}{4}$ " even border of lavender-blue; pale lavender beard. M 61 (Snow Flurry x Sea O'Blue pumila) X Lilli-Var. HC 1966.
- *RED OAK (Ferguson, Spuria, R. 1965). Ferguson 1966.
- *RED PRELUDE (Saddoris, TB, R. 1963). Saddoris 1966.
- REDWOOD EMBERS (Eugene Blodgett, R. 1966). Sdlg. 62-87A. TB,

38", M, RVLD. Garnet lake (Wilson 828) self with brown flush at haft; lavender beard. Storm Warning X Bazaar. HC 1966.

REGARDS (Ben R. Hager, R. 1966). Sdlg. M1817A. SDB, 12", E, V4R. S. smoky-orchid; F. deep velvety maroon-red; orchid beard. Cherry Falls x Cook 1546 X Evening Storm x Welch pumila sdlg. H501.

RELUCTANTLY (Jake H. Scharff, R. 1966). Sdlg. 56-51-2B. TB, 36", E-M, OYLL. Orange-yellow (buff) self; lacy. Yesteryear X Orange Frills.

REPARTEE (C. and K. Smith, R. 1966). Sdlg. 64-36. TB, 30", E-M-L, Y4R. S. ivory-yellow (Ridgway 21f); F. carmine and oxblood-red with ivory border. Grosvenor X Paradox.

*REPLICATA (R. Smith, TB & re, R. 1964). Avonbank 1966.

RESTLESS WAVES (C. W. Tompkins, R. 1966). Sdlg. 63-92. TB, 36", ML, BlP. Sky blue self. Sdlg. line X sdlg. line.

*RETA FRY (Collie Terrell, TB, R. 1964). Melrose 1966.

*RICH ACRES (Greenlee, MDB, R. 1964). Greenlee 1966.

*RICH REWARD (E. Smith, TB, R. 1965). Smith's Iris Gardens 1966.

*RIC RAC (Gordon Plough, IB, R. 1965). Eden Road 1966.

RING BEARER (Paul H. Cook by Emma Cook, R. 1966). Sdlg. P 46. MTB, 19-20", M, OLP. S. between La France pink and seashell pink (Ridgway); F. same. Jonas 1112-1 X Galyon P. Y. "Pinkie".

*RIO ROSO (Corlew, TB, R. 1964). Cherry Lane 1966.

*RIPPLE ROCK (Lenz, Pacific Coast hybrid, R. 1963). McCaskill Gardens 1966.

RIPPLING WAVES (Robert Reinhardt, R. 1966). Sdlg. 63-30. TB, 36", M, W20. S. brown; F. pure white with brown border; horizontal flared and fluted. Tahola X 60-94-1.

RIVER QUEEN (Mabel Framke, R. 1966). Sdlg. 63-49A-F. TB, 36", ML, B4W. S. milky lilac infused coppery blue; F. milk-white tinted orchid. (Galilee x Salem) X Rehobeth x (I. Melrose x Sass Desert Flower, ivory petal sdlg.). Fleur de Lis 1966.

RIWELIN (Dr. Hertha van Nes, R. 1966). Sdlg. P-106. MDB, 6", EE, RV3. S. purple-violet; F. dark red-velvet; bluish beard. Rosemund X unknown.

ROBIN REDBREAST (Ferris D. Gaskill, R. 1966). Sdlg. 62-70. TB, 36", E, R5D. Raspberry-red blend with tan edging; red-brown beard. Mary Randall X sib to Big Chief. HC 1966.

ROMAN CANDLE (Bennett C. Jones, R. 1966). Sdlg. 687-1. TB, 35", M, Y3. S. barium yellow (Wilson 503/2); F. (503); tan-gerine beard. Sdlg. 584 ((Frances Kent x Mary Randall) x One Desire) X 598 (Spanish Affair x Shoop 58-18).

ROOKWOOD BLUE (Mrs. Thomas Nesmith, R. 1966). Sdlg. 76-46. TB, 36", BlL. Light blue self (Wilson 642/1). (Eleanor's Pride x Bluebird Blue) X Concord River. HC 1965. Fairmount 1966.

ROSE AND SILVER (W. A. Payne, R. 1966). Sdlg. 961. Jap, 44", M, Vlcm. Light ground uniformly stippled hortense violet.

- Debonair Prince X 754 (631 x The Great Mogul).
- ROSE DUETTE (R. G. Smith, R. 1966). Sdlg. B10BR. BB & re., 23", E and re, RV1D. Deep purple-red (Nickerson 7.5RP 3/9). Sib to Polar Flame X Northern Spy. Roberts 1966.
- ROSEMARY LANE (R. A. Wise, R. 1966). Sdlg. 4/64. TB, 36", M, V1P. Orchid-pink self. 3/55 (Benton Petunia x Pink Cameo) X Chinese Coral.
- *ROSE REPRISE (Fail, TB, R. 1965). Hilda's 1966.
- *ROSES IN SNOW (Noyd, TB, R. 1965). Noyd's 1966.
- ROSIE O'GRADY (Robert Innes, R. 1966). Sdlg. 1-63. TB, 36", ML, R3. S. light rose flecked gold; F. dark rose with crinkled edges. (Marilyn C x Emma Cook) X Melodrama.
- ROTKAEPPELCHEN (Dr. Hertha van Nes, R. 1966). Sdlg. 0-16B. MDB, 8-10", E, RV1D. S. dark red-purple; F. dark red-purple, velvety; brownish-orange beard; brown-red styles. Little Jewel X unknown.
- *ROUGE REX (Judy, TB, R. 1962). Eden Road 1966.
- *ROUGH RIDER (Daling, TB, R. 1965). Eden Road 1966.
- ROUNDUP (Keith Keppel, R. 1966). Sdlg. 62-27A. TB, 32", M, W2R0. S. cream ground almost solidly overlaid cordovan; F. solid margin of Rembrandt brown, white ground; thumbprint on either side of white and bronze beard. Maricopa X Gene Wild x Majorette.
- *ROYAL GOLD (Hamblen, TB, R. 1964). Mission Bell 1966.
- ROYAL MOON (Kelway & Son, R. 1966). Sdlg. 647. TB, 38", L, Y1P. Cream self. Desert Song X Wonder Light.
- ROYAL SABLE (Tim Craig, R. 1966). Sdlg. K2-328. TB, 32", M, V3FD. S. royal purple; F. bright dark royal purple. Mary McClellan X Storm Warming. Craig 1966.
- *ROYAL TARA (Harbour, TB, R. 1964). Old Brook and Bay View 1966.
- ROYAL THRUSH (Earl R. Roberts, R. 1966). Sdlg. 61R50. MTB, 22", M-ML, 04RVcm. S. light copper-brown; F. bright purple edged brown. ZI-1 (Zebra x I. imbricata) X Parakeet. HC 1966.
- ROYAL TOUCH (Schreiner's, R. 1966). Sdlg. W 1551-A. TB, 35", L, V1DD. Dark marine blue-violet, uniform color; navy blue beard. S 635-A ((J 219-A (Blue Ensign x (The Admiral x Great Lakes)) X Randolph 53-244-2 ((Pierre Menard x (Distance x Sylvia Murray))).
- *RUBYTON (Hazzard, Jap, R. 1965). Hazzard 1966.
- *RUFFLED HYACINTH (Swearengen, Jap, R. 1964). Swearengen 1966.
- RUSHING WATERS (Mattie Reinhardt, R. 1966). Sdlg. 63-54. TB, 35", M-L, BV1cm. Blue-violet self with pale blue across haft; pale blue beard, ruffled and flared. 56-57 X 57-44.
- *RUSSET DOT (Roberts, SDB, R. 1965). Roberts 1966.
- SABLE ROBE (Paul H. Cook by Emma Cook, R. 1966). Sdlg. 3161. TB, 36", M, V1DD. Blackish violet self. 16952 (11348 x 3850) X 10957 (Deep Black x 6354). Cook 1966.

SAFFRON ROBE (Steve C. Moldovan, R. 1966). Sdlg. 65-37. TB, 38", L, Y5F. Old gold self; no marks; brown beard. Chinese Coral X Gypsy Jewels. HC 1966.

SANDWICH (Tim Craig, R. 1966). Sdlg. BlR2(A). TB, 38", M, B3PF. S. pale lavender (*neglecta*); F. cleopatra. Mary McClellan X Whole Cloth. Craig 1966.

*SANDY CAPER (Warburton, IB, R. 1965). Old Brook and Warburton 1966.

SAN POLO (H. Castle Fletcher, R. 1966). Sdlg. 62/178 A. TB, 34", M, RL. Chianti red self. ((Troutbeck x Halolight) x Gilston Gunflash)) X Gilston Garnet.

*SAPPHIRAMA (Clyde Cochran, TB, R. 1964). Cochran 1966.

SAPPHIRE BOUQUET (Gladys M. Wiswell, R. 1966). Siberian, 24", M, BlL. Deep sapphire blue self; golden haft. Unknown parentage. Fairmount 1966.

SAPPHIRE FUZZ (O. D. Niswonger, R. 1966). Sdlg. 10-63. TB, 32", M, BlL. Light blue self, slightly ruffled; dark blue beard. Lady Bluebeard X Marriott.

SATIN FLOUNCES (Miriam Corey, R. 1966). Sdlg. AA 71-1. TB, 33", M, W1Y. White self, ruffled; light lemon beard. Laced Flounces X Whole Cloth.

SATIN RIPPLES (John Baldwin, R. 1966). Sdlg. 60-1C. TB, 36", E, Y5P. S. silvery white brushed pale gold; F. silvery white with 1/8" border of pale gold; pale yellow beard; extremely ruffled. Charmaize X Ethereal Minstrel.

*SAUCY PINK (Muhlestein, BB, R. 1962). Tell's 1966.

*SCALE MODEL (Hager, MTB, R. 1965). Melrose 1966.

SCARLET RIBBON (C. W. Tompkins, R. 1966). Sdlg. 61-117A. TB, 38", EL, RL. Scarlet red self. Involved red sdlg. lines X Milepost. Fleur de Lis 1966.

SCATTERED SHOWERS (Frank Foster, R. 1966). Sdlg. FZ-21-5. MTB, 28", M-L, W2VB. Warm white ground, stitched and dotted violet-blue with gray haze over white on F. (San Francisco x Castle Rock) x (San Francisco x Dale Dennis) X Dale Dennis. Mesa Iris Gardens 1966.

SCHOENSTE VIOLA (Dr. Hertha van Nes, R. 1966). Sdlg. W-8. MDB, 5", EE, V1D. S. dark violet; F. somewhat darker than S.; bluish white beard. ((TB *plicata* x *pumila*) x *chameiris*)) X unknown.

SCRUMPTIOUS (Leo Clark, R. 1966). Arilbred, 30", M-L, V4Ycm. S. clear light orchid; F. wide golden tan with hugh red-black signals; golden tan styles. 55-9-A X Wilkes' (Iman Salah x Imaret). Sierra View 1966.

SEA BRIDE (Miriam Corey, R. 1966). Sdlg. AA 114-1. TB, 38", M, BlF. Medium blue self; S. touch; F. flare; white tipped yellow beard. Galilee X Ruffled Starlite.

SEA PATROL (Cleo Palmer, R. 1966). Sdlg. 64-102. TB, 34-36", M-L, VB4GY. S. pale lavender-blue; F. chartreuse-yellow, hafts flushed mustard-tan; rich cadmium-yellow beard. Hit Parade X unknown.

SEAVIEW (Ben Shoop, R. 1966). Sdlg. 60-1. TB, 34", EM, Bl.

Medium blue self; white beard. Parentage involves Sable, Snow Flurry, Black Forest, Big Game, Palmer sdlg. 938-C. Shoop 1966.

*SECRET AGENT (DuBose, TB, R. 1965). Melrose 1966.

SEEING RED (W. B. Schortman, R. 1966). Sdlg. 6422. TB, 36", EML, R1D. Maroon self. Tall Chief X Grand Surprise.

SEPTEMBER BOUQUET (G. Percy Brown, R. 1966). TB re, 30", YLF. Medium-yellow self; red veins; orange beard. (Autumn Orange-lite x Happy Birthday) X Fall Primrose.

SEPTEMBER BUTTERFLY (G. Percy Brown, R. 1966). TB re, 34", W2RV. S. flushed yellow, red plicata dots; F. white center and veins, red plicata veins and dots; orange beard; slight fragrance. Summer White Wings X Lugano.

*SEPTEMBER CHEREAU (G. P. Brown, TB re, R. 1965). Brown's Everblooming Iris Garden 1966.

*SEPTEMBER GOLD (G. P. Brown, TB re, R. 1965). Brown's Everblooming Iris Garden 1966.

SEPTEMBERWOLKE (Victor von Martin, R. 1966). TB, 38", M-ML, W4VB. S. white, cream tinged; F. medium violet-blue, with olive-green markings on both sides of beard. Hofdame X Whole Cloth.

SEVEN LEAGUES (Steve C. Moldovan, R. 1966). Sdlg. 65-41. TB, 37", ML, BV3. S. violet-blue; F. violet overlaid turquoise-blue; very ruffled. Pacific Panorama X Sterling Silver.

SHADOW WAVE (Reuben T. Smith, R. 1966). Sdlg. 59-107. TB, 36", M-L, W1Vcm. S. white with 1/2 edge shadowy blue-violet; F. same with pansy-violet shadow. Pierre Menard X Gibson Girl.

SHANDIN (Stephana Woodside, R. 1966). TB, 30", M, OY5F. Yellow bronze self. Glittering Gold X Mary Randall.

SHANGRI-LA FROST (Veronica M. Quist, R. 1966). Sdlg. 42-A. TB, 33", ML, W1. Ice white self; beard pale yellow, outer half white. From sdlgs. involving White Sprite and Arabi Pasha.

SHANGRI-LA RIPPLES (Veronica M. Quist, R. 1966). Sdlg. 11A-1. TB, 30", M, W1Y. S. pale ivory-white; F. white with lemon-yellow rippling extending from haft about 1" on each side; lemon-yellow beard. Patrician X Heartbeat.

SHEER ELEGANCE (W. A. Payne, R. 1966). Sdlg. 986. Jap, 48", M, Vlcm. Pansy violet self with blue halo and veins; prune-purple center. Debonair Prince X 226 (62 x 110).

SHORT SNORT (E. W. Smith, R. 1966). Sdlg. 66-ES-5-7 (27). TB, 28", Y5L. Light yellow blend; yellow blended with violet. Escapade X Tally-ho.

SHORT STORY (Keith Keppel, R. 1966). Sdlg. 61-31 I. TB, 29", M-L, B4V. S. pale blue (Maerz and Paul 41-A-5); F. dark violet (41-I-12). Rococo X Whole Cloth. HC 1966.

SHOSHONI BRAVE (Mrs. Ray Blackley, R. 1966). TB, 35", M-L, O5D. S. dark chocolate-brown; F. self color with rosy-violet area around yellow beard. Grand Coulee X Lady Albright.

*SHRINKING VIOLET (Hager, MTB, R. 1965). Melrose 1966.

*SIAM (Zurbrigg, TB, R. 1965). Avonbank 1966.

SIGRUN (Dr. Hertha van Nes, R. 1966). Sdlg. L-616. MDB, 6-8", EE, V1L. S. lavender; F. same; white beard. A. M. Berthier X April Morn.

SILENCE (C. W. Tompkins, R. 1966). Sdlg. 63-83. TB, 38", ML, YLF. Deep canary-yellow self. (Comforting Thought x Fancies Flight) X Kashmir Lace x 55-192 lines, sibbed. Fleur de Lis 1966.

SILENT SNOW (Clifford W. Benson, R. 1966). Sdlg. 66-44. TB, 36", ML, WLW. White self; ruffled, wide and heavily substanced. (((Cliffs of Dover x ((Snow Flurry x Sealark) x Marion Marlowe))) X Skywatch.

*SILKEN PETTICOATS (Mahood, SDB, R. 1965). Northwest Hybridizers 1966.

*SILKEN SUE (Shoop, SDB, R. 1965). Old Brook 1966.

SILVER CASCADE (W. A. Payne, R. 1966). Sdlg. 1281. Jap, 36", M, V1Dcm. Uniform royal purple self with broad white veins; no halo. Sky and Water X Mai-ohgi.

*SILVER SKIES (Corlew, TB, R. 1965). Cherry Lane 1966.

*SILVER TRAIL (Opal Brown, TB, R. 1964). Brown's Sunnyhill Gardens 1966.

*SILVER WEDDING (R. Brown, TB, R. 1965). Brown's Iris Gardens 1966.

*SING AGAIN (Gordon Plough, IB, R. 1965). Eden Road 1966.

SINGING PINES (Gordon Plough, R. 1966). Sdlg. 62-154-17. TB, 36", EM, Y5L. S. self of buffy chartreuse; F. slightly darker with slight lavender glow in center, green veining on hafts; beard light mustard; styles greenish straw with orchid stigma lip. (Exotic Blue x Lula Marguerite) X Sdlg. involving Green Quest, Butterfly Wings, Pink Lace, Gold Ruffles, sib to Riviera.

SINGING STRINGS (Ronald J. Beattie, R. 1966). Sdlg. B 59-25. TB, 42", M-L, V3LP. S. lilac; F. same fading to near white with age; red beard. Frances Kent x Tell Sdlg. (Salmon Shell x 49-31) X Revel. Old Colony 1966.

SIREN SONG (W. A. Payne, R. 1966). Sdlg. 1285. Jap, 40", M, Vlcm. Light ground uniformly sanded dull bluish violet with broad light veins; no halo. 953 (Debonair Prince x Carnival Queen) X Mai-ohgi.

SKY AT HOME (Victor von Martin, R. 1966). (Himmel Der Heimat). TB, 34", M, B1L. Clear medium blue self; enamel-like finish. Seamaster X South Pacific. Silver Medal, Vienna, 1964. Fairmount 1964.

SKY DOT (Earl Roberts, R. 1966). Sdlg. 66R2. MDB, 4", VEE, W3cm. S. white with green ribs; F. white with deep blue spot; white beard. ((White Mite x Brownett) x cream sdlg.)) X (White Mite x Brownett) x cream sdlg. sib. HC 1966.

*SKY DRIFTER (F. J. Foster, BB, R. 1965). Mesa Iris Gardens 1966.

SKY HARBOR (James E. Marsh, R. 1966). Sdlg. 65-38. TB, 36", EM, B1L. Spectrum blue (Wilson 45/3) self with lighter area just below beard; wide and ruffled. Galilee sdlg. 61-30 X

Ellen Manor.

SKY KING (Patricia V. Craig, R. 1966). Sdlg. P. blue l. TB, 40", E, BlF. Commodore-blue self. Steeplechase X Mary McClellan x (Mary McClellan x Blue Violet).

*SLUMBER TIME (Guenther, IB, R. 1964). Wactah Majon 1966.

*SMOKE SCREEN (Plough, BB, R. 1965). Eden Road 1966.

*SMOKI DANCER (Valette, TB, R. 1960). Tell's 1966.

*SNIPPET (Warburton, SDB, R. 1965). Old Brook and Warburton 1966.

SNOWKID (Tim Craig, R. 1966). Sdlg. 235. MDB, 8½", EE, W1B. Snow white self with blue streaks on some flowers. Clean Sweep X My Daddy. Craig 1966.

*SNOWSCAPE (F. Evans, TB, R. 1962). Melrose 1966.

SNOWY RUFFLES (W. A. Payne, R. 1966). Sdlg. 695. Jap, 38", LM, W1W. Pure white self. Red Titan X Imperial Robe.

SONNERLAND (Dr. Hertha van Nes, R. 1966). SDB, 10", E, Y1F. Chrome-yellow self; broad and wide, flaring F. Unknown X Unknown.

SONNENPRINZ (Siegfried Ziepke, R. 1966). SDB, 12-14", E, Y1FcM. S. medium yellow; F. somewhat darker with olive shimmer in middle; yellow beard. Green Spot X yellow lilliput sdlg.

*SOUND OF MUSIC (Opal Brown, TB, R. 1964). Brown's Sunnyhill Gardens 1966.

SOUTHERN HOSPITALITY (William T. Bledsoe, R. 1966). Sdlg. 64-13. TB, 38", E-M, Y1F. Medium yellow self; lighter area below beard. Yellow sdlg. (unknown parentage) X (Phoebus Apollo x Techny Chimes).

SPACE MASTER (Paul H. Cook by Emma Cook, R. 1966). Sdlg. 3462. TB, 38-40", M, Y4V. S. barium yellow to amber at center (Ridgway); F. between pale and bluish violet. 12960 X 8159.

SPANISH HONEY (Richard Morgan, R. 1966). Sdlg. 60-26. TB, 33", EM, Y5F. Dark honey-beige blend. Goldbeater X Tobacco Road.

SPARKLE BRITE (Dorothy Guild, R. 1966). Sdlg. 63E12. MTB, 26-28", E-M, Y4Wcm. S. straw yellow; F. warm off-white with wire edging of above color and brownish stripes and veining. Eversweet X Eversweet.

SPARKLING WINE (Mrs. John Hardy, R. 1966). Sdlg. 3SM-11. BB, 24", M, RV1D. Wine-red self; darker texture veining on F.; purple beard. Black Taffeta X (Happy Birthday x aphylla).

SPICEWOOD (Helen Stevens, R. 1966). Sdlg. EE64-28. SDB, 10½", M, Y5D. Copper-tan blend, deep gold beard. Ebony Echo X Cook 2455.

SPRING ECHO (G. W. Dubes, R. 1966). Sdlg. 1960-5-3. TB, 35", M, BlF. Very blue self. Galilee X Whole Cloth. HC 1966.

SPRING FIESTA (Schreiner's, R. 1966). Sdlg. R 16-2. TB, 32", E, Y0L. Apricot self. L 59-2 ((I 25-D (Radiation x Lap. E 8)) x I 77-1 (Apricot x Galatea) X Glittering Amber.

SPRING GODDESS (Mrs. Joe B. Coker, R. 1966). Sdlg. 64-1. TB, 36", EE-M, Y1L. S. light yellow; F. same; beard yellow;

fluted and ruffled. Snow Goddess X Spring Romance.

SPRING PROMISE (H. H. Henkelman, R. 1966). Sdlg. H 65-5. TB, 36", E, OYLL. Apricot-pink self. Unnumbered, reselected sdlg. X unnumbered, reselected sdlg.

SPRING RAIN (Mildred Brizendine, R. 1966). Sdlg. MB-49-66. BB, 24", EM, W4GY. S. white; F. chartreuse. Frosted Mint X B-33-60.

SPUNKY IMP (Mrs. Nick Carstensen, R. 1966). Sdlg. C 4-66. MDB, 5", E, YLF. Straw yellow self. Sundrops x Mauve Mist X Mauve Mist.

*STAR CHILD (Hager, BB, R. 1965). Melrose 1966.

STEEL SMOKE (Marjorie Anderson, R. 1966). Sdlg. 45-26. TB, 34", M, BlP. Steel blue smoke self; yellow beard; amber haft color. Grand Coulee X Galilee. HC 1966.

STELLULA (Miriam Corey, R. 1966). Sdlg. AA-44. BB, 24", M, W4B. S. white; F. blue. Vollendam X Whole Cloth.

*STOUT FELLOW (Hazzard, Jap, R. 1965). Hazzard 1966.

SUGAR CANDY (Mrs. L. W. Brummitt, R. 1966). Sdlg. 142/1. Pacific Coast Iris, 10", M, Y5Lcm. Biscuit self with central maroon strip on S. and maroon marking on F. Innominatea sdlg. X Douglasiana sdlg.

SUITS US (Stephana Woodside, R. 1966). TB, 28", ML, YLF. Yellow self. Flamingo Bay X Shardin.

SULFINEA (Dr. Peter Werckmeister, R. 1966). SDB, 12", E, GYLL. Greenish to sulphur-yellow self. Eisdom X lilliput or yellow chamaeiris sdlg.

SULTAN'S CHOICE (Eva T. Smith, R. 1966). Sdlg. 64-124. TB, 36", M, RO3. S. medium bronze; F. red-bronze. (Harvest Splendor x Twenty Grand) X (Lolo Trail x Grand Coulee).

SULTRY (Eva T. Smith, R. 1966). Sdlg. 64-845. TB, 32-34", M, OR4RV. S. bronzy red with violet glow; F. red-violet; orchid beard tipped white; lighter area around beard. Top Hat X Sable Night.

*SUMMER BLUE BELL (G. P. Brown, BB re, R. 1965). Brown's Ever-blooming Iris Gardens 1966.

*SUMMER BLUE DRESS (G. P. Brown, BB re, R. 1965). Brown's Ever-blooming Iris Gardens 1966.

*SUMMER PALEFACE (G. P. Brown, TB re, R. 1965). Brown's Ever-blooming Iris Gardens 1966.

*SUN HAT (Hazzard, Jap, R. 1965). Hazzard 1966.

SUNKIST CLOUDS (Schreiner's, George Thompson, selector, R. 1966). Sdlg. R 727-3. TB, 40", ML, Y4W. S. yellow; F. crinkled white. (((((Carmela x L 117-A) Casa Morena x F315C) Midwest Gem))) x Midwest Gem x Chantilly))) X Twenty Grand.

SUNLIT MEMORIES (Mabel Framke, R. 1966). Sdlg. 63-16F. TB, 36", M-VL, YLM. Creamy canary-yellow self, deeper hafts. Comforting Thought X ((Gentle Star x Techny Chimes) x Primrose Path)). Fleur de Lis 1966.

*SUNLIT RIPPLES (O. Brown, TB, R. 1965). Brown's Sunnyhill Gardens 1966.

SUNNYLATION (Ronald J. Beattie, R. 1966). Sdlg. 59-11. TB, 32", EM, Y1F. Rich golden yellow self. BB-55-23 ((Good News x Shoop sdlg.) x Al Borak)) X B-56-23 (Mexico x Moontide) x ((Good News x (Juliet x Rocket)). Old Colony 1966.

SUNRISE PEAKS (Mrs. Ray Blackley, R. 1966). TB, 34", M, OLP. Pinkish white self with misty light pink hafts and light tangerine beard, shading to white at tip. Can Can x Pink Formal X Surrender.

SUNRISE SONATA (Bryce Phenis, R. 1966). Sdlg. 64-15-N. TB, 34", M, YO5P. S. pastel blending of pink, apricot, cream and gold; F. same with red beard. Celestial Glory X Claudia Rene.

SUN SPREE (J. M. Gibson, R. 1966). Sdlg. 11-OPLE. TB, 36", M, Y1F. Rich yellow self. 5-7 PLA X 8-7 PLJ.

*SUPER EGO (McGarvey, Sib, R. 1965). Old Brook 1966.

SUPER PINK (H. H. Henkelman, R. 1966). Sdlg. 1961-25. TB, 32", M, OLP. Pink self. June Meredith X (Happy Birthday x Radiation).

SURE ALLURE (W. A. Payne, R. 1966). Sdlg. 1106. Jap, 38", LM, V1Fcm. Royal purple self faintly veined light; blackish violet center. Warei-hotei X 640 (30F3 x Joyous Cavalier F₃).

SURPRISE SURPRISE (F. R. Judy, R. 1966). Sdlg. 6226-2. TB, 36", ML, Y2RD. S. pale cream with brown-red striations; F. slightly lighter cream, white spot around throat, dots of brown-red in almost solid fancy pattern. Judy 57128 (Master Neil x Red Chieftain) X Carl Smith 54-44 (Mary Randall x New Hope).

SUSPENSE (Ben R. Hager, R. 1966). Sdlg. S139A. Spuria, 38", L, RV4Wcm. S. light purple; F. cream-white veined purple. Golden Lady x I. carthaliniae.

*SWEET ARIA (Schmelzer, TB, R. 1965). Schmelzer 1966.

SWEETHEART AT TEA (Charles Wm. Voris, R. 1966). Sdlg. 66-7. TB, 34-36", M, YO1L. Deep apricot-pink self; pure orange beard. Fiftieth State X Marian V. Croft.

SWIFT CURRENT (E. W. Smith, R. 1966). Sdlg. 59-ES-8-2. TB, 34-36", E, W3. White with cream undertone; F. white with pale hint of green; white beard. White Wedgewood X Pinnacle.

*SWINGIN' MISS (Zuercher, SDB, R. 1965). Pleasant Hours 1966.

SWIRLING MIST (Jean Witt, R. 1966). Sdlg. 63-06. Cal-Sib., 24", M, VY5L. S. dull lavender, veined and washed on palest ivory ground; F. same, darkening to violet around yellow signal. Pale blue I. Douglasiana X brown sdlg. (probably I. Chrysographes x I. Forrestii). Northwest Hybridizers 1966.

*TABLELAND (C. DeForest, TB. R. 1965). Irisnoll 1966.

TAEUBCHEN (Dr. Peter Werckmeister, R. 1966). TB, 28-32", M, W4BV. S. bluish white; F. lavender. Jane Phillips X Progenitor.

*TAFFY TWIST (Roe, TB, R. 1965). Roe 1966.

TAHITIAN PRINCESS (Geneva Wilson, R. 1966). TB, 36", M, OY1F. Golden tan self; hint of white at tip of orange-yellow beard. Good News X Gold Frills x Ivory Frills.

TANOLET (William H. Peck, R. 1966). Sdlg. D 106K. TB, 36", M,

V4Wcm. S. wisteria violet blending to lighter center; F. white with wisteria violet edging, tan hafts, white beard, changing to yellow in center of flower. (Black Forest x Melody Lane) X Lipstick.

TANTRIS (Dr. Hertha van Nes, R. 1966). Sdlg. P-37. SDB, 10", E-M, V1D. Dark violet self; lavender beard; fragrant; leaf bases deep violet. Lilli-Yellow X aphylla dark wine-red K&S.

TAKE OF HONEY (Schreiner's, R. 1966). Sdlg. T 1002-2. TB, 37", M, Y1Fcm. Clear golden brassy yellow self with distinguishing shoulder markings of distinct brown embossing. Olympic Torch X Hindu Wand. Schreiner's 1966.

TAWNY MINK (Schreiner's, R. 1966). Sdlg. R 930-1. TB, 37", ML, Y1F. Rich golden yellow self; lavishly fluted and ruffled. L 301-P (Pretty Quadroon x Inca Chief) X Olympic Torch. HC 1965. Schreiner's 1966.

TEARS OF JOY (Harry Shaffer, R. 1966). Sdlg. 56-R27-14. TB, 36", M-L, RV1D. Red-purple self (Nickerson 10P 4/10); orange-yellow beard. Heather Dell X Heather Dell.

TEBBY DARE (Myrtle I. Wolff, R. 1966). Sdlg. 63-178-7. SDB, 11", E-M-L, Y1Fcm. S. yellow (Nickerson 5Y 6/7); F. same with garnet brown blaze; bright yellow beard. Green Spot X Priva-teer.

TEMPLE DAHLGREN (Arthur Watkins, R. 1966). Sdlg. 63-49-A. TB, 30", M, Y5P. S. pale yellow blending; F. deep lavender (0027/3), blending of light chrome yellow (605/3). Leola Fraim X Gray Lace.

TEMPO (Georgia Hinkle, R. 1966). Sdlg. X-11-1. TB, 34", M-L, W1Bcm. White self, ruffled 1/2" bright medium blue edge on F.; white beard. (Dear Bob x Melodrama) X Brave Viking.

THAI SILK (C. & K. Smith, R. 1966). Sdlg. 64-26. TB, 32", M-L, W4BL. S. white; F. cadet blue (Ridgway); blue midrib extends up S.; yellow beard. Gertrude Wister X Whole Cloth.

THE GOWER (H. J. Randall, R. 1966). Sdlg. 44/21. Siberian, 34", M, B3. S. pale blue; F. dark blue. Spender sdlg. X Gatineau.

THREE GRACES (Ferris D. Gaskill, R. 1966). Sdlg. 12-65-10. TB, 34", M, W1R. S. pure white self with vivid red beard. Midwest Magic X Rudolph 63-45 (sib to Crystal Blaze).

THRILLING MOMENT (Geneva Wilson, R. 1966). Sdlg. 57-213. TB, 32", EM, O5L. S. flushed violet; F. deep smoked apricot; bright orange-yellow beard. Apricot Glory X June Bride x Topflight.

THRONE ROOM (Bryce Phenis, R. 1966). Sdlg. 64-34-S. TB, 36", M, Y3. S. dresden-yellow, flushed apricot; F. deep dresden yellow, beard same. Denver Mint X September Song.

TIDA APA (Leo Clark, R. 1966). Sdlg. 63-C-16. Oncocylus, 10-15", E, O1Pcm. Light to medium pink self veined and washed raspberry pink near midribs; hugh deep black signals. Kerr 55-9-A (I. gatesii x I. aurantica) X Kerr 53-44 (I. gatesii x I. susiana) x (Austin W118 x Heliox).

TIDESONG (C. & K. Smith, R. 1966). Sdlg. 64-33. TB, 40", M-L, BlF. Sea blue self (Wilson) tinctured lobelia blue; blue beard; ruffled and flaring. Imperial Woman X Allegiance.

TING-A-LING (Ben R. Hager, R. 1966). Sdlg. M1850C. SDB, 12", E, YLL. Soft yellow self; blue beard. Zing x (Brassie x Brownie).

TINSEL TOWN (C. W. Tompkins, R. 1966). Sdlg. 64-110. TB, 38", M-VL, Y5P. Cream white self flushed gilt; ruffled, laced and flaring. From involved line of Tompkins. HC 1966.

T'IS MIDNIGHT (Cora May Pickard, R. 1966). Sdlg. C 1617. TB, 35", EM, BlF. Deep gentian blue self. Blue Bermuda X Allegiance. HC 1966.

TOMINGO (Earl Roberts, R. 1966). Sdlg. 65R4. SDB lilliput, 12", E, R1F. S. deep wine red; F. same with darker veining; wine red beard. Captain Gallant X Vindobona. HC 1966.

TONGA MOON (Mrs. Ray E. Jensen, R. 1966). Sdlg. 4-64. TB, 30", M-L, Y4Wcm. S. canary-yellow; F. white frosty with 1/2 edge same color as S.; laced and ruffled. Filigree X Riviera.

TONI MICHELE (Hilda Fail, R. 1966). Sdlg. F 6-12. TB, 35", M-L, RV1D. Dark red-violet self; S. between magenta to imperial or cotinga purple; F. same with slight infusion of chocolate-brown especially in haft area; pale yellow beard tipped bluish violet. Cathedral Bells X Dark Chocolate. Tell's 1966.

TOP MAN (Reuben T. Smith, R. 1966). Sdlg. 49-89. TB, 40", M-ML, V1D. Very deep violet self. Sable X Broadripple.

TOUCHE (Mrs. J. R. Hamblen, R. 1966). Sdlg. H63-7B. TB, 34", M-L, PR4VB. S. pink flushed with blue-violet; F. blue-violet; beard tangerine-red. Lilac Champagne X involved pink x blue breeding x Melodrama.

*TOUCHSTONE (Hager, TB, R. 1965). Melrose 1966.

TOWER GROVE (Myrtle Wolff, R. 1966). Sdlg. 63-170-1. SDB, 15", E-M-L, WlcM. Cool white S. with hint of green; F. same with empire yellow hafts. Lilli-white sdlg. X Nike.

*TOY SHOP (Fay, BB, R. 1964). Moldovan 1966.

TREASURE ROOM (Bryce Phenis, R. 1966). Sdlg. 64-90-E. TB, 32", M, Y3PFcm. S. cream; F. yellow with wide cream border. Moon Crest X Touch of Elegance.

*TULE RAINBOW (Fail, TB & re, R. 1965). Hilda's 1966.

*TULE TRUMPETER (Fail, TB, R. 1965). Hilda's 1966.

*TWICE BLESSED (D. Dennis, SDB re, R. 1965). Old Brook 1966.

TWILIGHT SONG (Alta Brown, R. 1966). Sdlg. M 508-2. IB, 23", E, V3LF. S. light lavender-blue; F. rich red-purple, lighter at edges; ivory beard. Green Lilt X Melodrama.

*TWILIGHT TRAIL (M. Anderson, TB, R. 1965). Twin Gates 1966.

ULTRA SHADOW (Tim Craig, R. 1966). Sdlg. 239 LRS 6. MDB, 8½", EE, V1Dcm. Canterbury self with concord spot pattern. KB 8 X Little Darkie. Craig 1966.

UNEEK (H. H. Henkelman, R. 1966). TB, 33", M, Y4W. S. yellow; F. white. Dream Dance X Frances Kent.

UPLAND GOLD (Mrs. John Hardy, R. 1966). I. tenax var. Gormani, 18", E, Y1Pcm. Pale yellow self; darker blaze on F. Collected.

VALSE PETITE (C. W. Tompkins, R. 1966). Sdlg. 62-151. BB, 19", EM, W2V. White edged orchid blue. Dale Dennis X Echoette. Fleur de Lis 1966.

VASHON (Gordon Plough, R. 1966). Sdlg. 59-82-20. TB, 30", EML, Y1Lcm. S. aureolin (Wilson 3/3) with a pink glow; F. aureolin (3/2) with large white area around beard; clean hafts deepen to near Indian yellow (6/2); some darker veining by tangerine-orange beard. Glittering Amber X Gavotte.

VEILED PROPHET (Myrtle I. Wolff, R. 1966). Sdlg. 64-112-3. BB, 15", L, W1VG. S. white with hints of lavender and green; F. same; lavender beard. ((New Snow x (Beuchley's Giant x Golden Spike) x Nonpareil)) X Creme de Menthe.

*VELVET TOUCH (D. Dennis, SDB, R. 1964). Old Brook 1966.

VENETIAN DANCER (Margaret J. Albright, R. 1966). Sdlg. 11-60. TB, 38", M-L, OLP. Pink self; deeper pink beard. (Queen's Lace x Limelight) X (Venetian Pink x Native Dancer). HC 1966.

*VIBRANT DUSK (L. Peterson, TB, R. 1965). Tell's 1966.

VICI LYNN REED (Rosyl Savage, R. 1966). Sdlg. Sg 08. Arilbred, 36", E, Vlcm. S. violet with gold center; F. violet with golden hafts and beard. Golden Eagle X William Mohr.

*VICTORIAN PARLOR (Winkler, IB, R. 1965). Old Brook 1966.

VIET NAM (Gordon Plough, R. 1966). Sdlg. 60-136-27. TB, 32", ML, W2V. S. cool white with edges heavily suffused methyl violet (Wilson 39/1), wider at tip, color blends into white with dot pattern; F. warm white showing some dots narrowly edged methyl (39/15); beard has methyl base and tip, each hair tipped more heavily mustard-orange as it goes deeper in throat. Sib to Saigon X Saigon.

*VIKING SPIRIT (G. Carlson, TB, R. 1965). Eden Road 1966.

VIOLET AND SILVER (W. A. Payne, R. 1966). Sdlg. 1001. Jap, 48", EM, Vlcm. Light ground densely veined dark violet; dark violet center. Dark Rhythm X 795 (63 x Sky and Water).

VIOLET GLOW (Bion Tolman, R. 1966). Sdlg. 60-198-1. TB, 34", V1F. Full violet self. Violet Hills X (Indiglow x Allegiance).

VIOLET VOLTAGE (W. A. Payne, R. 1966). Sdlg. 1023. Jap, 42", E, V1D. Royal purple (Ridgway) self. 386 (Night Music x 174) X Debonair Prince.

VIRELAY (Jesse Wills, R. 1966). Sdlg. 41-63. TB, 38", M, BV3. S. medium blue-lavender; F. slightly darker blue-purple. (Broadway Star x Silvergilt) X Whole Cloth.

*VISITING NURSE (Knocke, TB, R. 1965). Young 1966.

VISITING STUDENT (Dr. T. J. Betts, R. 1966). Sdlg. 213A. TB, 34", M, Y4Vcm. S. pale barium yellow; F. dahlia purple with narrow edge barium yellow; fragrant. Starshine X Wabash.

VISTA (J. D. Taylor, R. 1966). Sdlg. E 12/14. IB, 18", E, B40. S. pale blue; F. brown. Golden Alps X Pogo. HC Wisley 1966.

WAGON TRAIN (Orpha Salsman, R. 1966). IB, 20", E, Y3PD. S. cream; F. golden brown. Baria X Polly Anderson sdlg. ((Polly x Hall pink) x Appointee)). Northwest Hybridizers 1966.

WALTZING (Clara B. Rees, R. 1966). Sdlg. 64-25. TB, 39", M,

BV1L. Deep lavender self. Arctic Flame X Celestial Snow.
HC 1966.

WALZERKOENIG (Dr. Hertha van Nes, R. 1966). Sdlg. P-2003. MDB,
8", E-M, V40. S. brilliant violet; F. chestnut-brown, violet
toward edge; narrow brownish violet beard. Fashion Lady X
aphylla dark wine-red K&S.

*WATER MUSIC (Bennett Jones, TB, R. 1965). Jones 1966.

WEE LAD (Gordon Plough, R. 1966). Sdlg. 62-233-15. SDB, 14",
EML, OR1D. Dark mahogany-red self. Red Rockette X Red Dandy.

WEE TOT (Gordon Plough, R. 1966). Sdlg. 62-230-4. SDB, 11",
EM, Wl. White self. Lilli-White X Snow Elf.

WEISSER DREISPITZ (Siegfried Ziepke, R. 1966). SDB, 14", E,
WLY. S. cream-white; F. same with yellow cheeks; white
beard. Green Spot X yellow lilliput sdlg.

WEISSER FUELLER (Dr. Hertha van Nes, R. 1966). Sdlg. N-89. MDB,
8-10", EE, Wl. White self; fragrant. Schneekuppe X Chamaeiris
hybrid J-537.

WEST COAST (Maynard Knopf, R. 1966). Sdlg. 65-31. TB, 36", M-
L, YOLF. Cadmium orange (Wilson 8/1) self. Denver Mint X
Celestial Glory.

WESTERN HOST (Ben R. Hager, R. 1966). Sdlg. T1827A. TB, 40",
M, RV1F. Deep rosy mauve-purple self. Goodness X Babson
137-7 (E61-3 x blue sdlg.) x Figurine.

WESTWIND SORCERY (Mrs. John Hardy, R. 1966). I. innominata,
15", RV1. Red-violet self; ruffled. Collected.

WESTWIND ZEPHYR (Mrs. John Hardy, R. 1966). I. tenax, 18", B1L.
Light blue self. Collected.

WHEAL TOWAN (A. O. McWilliam, R. 1966). Sdlg. 575.1. TB, 36",
M, O3PL. S. pink; F. apricot. June Meredith X (Casa Morena
x Rocket) x Lynn Hall.

WHIPPED CREAM (David Lorenz, R. 1966). Sdlg. 64-7-A. TB, 34",
EM, W1Bcm. Blue-white self with cream blaze under beard;
creamy white beard; ruffled and flaring. Sib to Henry Shaw
X Waxing Moon.

WHIRLING CREAM (Charles Wm. Voris, R. 1966). Sdlg. Cr66-99. TB,
36", M-L, Y1P. S. deep cream; F. lighter cream, flushed deeper
at haft. Moonlight Melody X Whirlaway.

WHISPERING SHADOWS (A. C. Howe, R. 1966). Sdlg. 4/27a. TB, 36",
ML, W2B. White ground, medium blue plicata. Rococo X Dancers
Veil. SC and HC 1966, BIS Show.

WHISPERING SPRITE (Dorothy Guild, R. 1966). Sdlg. 63N1. MTB,
26", E-M, W1Gcm. Greenish-white self with blue veined hafts;
bluish color running onto base of F. Nambe X bee.

WHITE CANDLEGLOW (Mrs. Nick Carstensen, R. 1966). Sdlg. C 1-62.
TB, 35", M, Wl. White self with cerise beard. Revel X Lip-
stick.

*WHITE DUET (Raymond Smith, TB & re, R. 1965). Smith 1966.

*WHITE FLUTTER (Fail, TB, R. 1965). Hilda's 1966.

*WHITE KING (Knopf, TB, R. 1965). Tell's and Knopf 1966.

- WHITE PINE (Carl and Mabel Bacon, R. 1966). TB, 46", M-L, WLW. White self with reflection of green from beneath; white tipped pale yellow beard. New Snow X Spanish Peaks.
- *WHITE TAFFETA (Rudolph, TB, R. 1965). Moldovan's 1966.
- WIDE LODE (Caroline DeForest, R. 1966). Sdlg. 64-27A. TB, 40", M, Y1F. S. between wax yellow and honey yellow (Ridgeway); F. same, deeper at haft, self beard. Rehobeth sdlg. 57-207 (deep cream and yellow) X Golden Chance.
- WILDCAT (O. T. Baker, R. 1966). Sdlg. 60-7-C. TB mutation, 34", E-VL, OY3FD. S. orange-yellow with yellowish brown striping; F. yellowish brown with orange-yellow haft. Rainbow Gold X Viveza x (Top Flight x Dancing Tiger).
- WILD HARVEST (Hazel E. Schmelzer, R. 1966). Sdlg. 1-5-6-E.S. TB, 36", M, Y03. S. fawn brass; F. brass brown. From four generations of crossing siblings from a cross of Belle Prairie X Brass Accents.
- WILD INDIAN (William T. Bledsoe, R. 1966). Sdlg. 66-9. TB, 36", E-M, R3LDcm. S. dark rose; F. maroon, cream hafts with vertical maroon lines. Rocket Rust X 64-11 ((Pink Fulfillment x (Lynn Hall x Pink Fulfillment))).
- *WILD MUSTANG (Z. G. Benson, TB, R. 1965). Benson 1966.
- WILDWOOD FANTASY (Mrs. John Hardy, R. 1966). I. innominata, 15", Y1cm. S. yellow; F. same, veined maroon; wide; ruffled. Collected.
- WILDWOOD GARLAND (Mrs. John Hardy, R. 1966). I. innominata, 15", Y1cm. S. yellow; F. same, veined maroon. Collected.
- WILLOW WISP (Joseph J. Ghio, R. 1966). Sdlg. 63-52N. TB, 36", L, GY5F. S. antique gold with green cast; F. antique gold, green and blue infusion. Mixed Emotions X (Frosted Starlight x Millionaire).
- WIND RHYTHM (Luella Noyd, R. 1966). Sdlg. N65-97-4. TB, 33", M-L, WLY. White self, lacy; deep buttercup yellow haft; red beard. N62-76-6: N60-56-5 (involving Spindrift, Melitza, blue sdlg., Mt. Washington, etc.) X ((Pretty Gay x Revel) x Luxury Line)).
- WIND RIVER (Stephana Woodside, R. 1966). TB, 36", EML, BV1L. Lavender self. Ruffled Taffeta X Ultra Violet.
- WINGS AFLUTTER (W. A. Payne, R. 1966). Sdlg. 837. Jap, 44", M, WLVcm. Large white center, prominent border of pansy violet. 612 (Pillar of Fire x Magic Ruby) X Reigning Beauty.
- WINGS OF TRIUMPH (W. A. Payne, R. 1966). Sdlg. 1100. Jap, 36", M, WLVcm. White self slightly tinted and sharply veined Bradley's violet; center violet. Sky and Water X 640 (30F3 x Joyous Cavalier F₃).
- WINTER LIGHT (Jesse Wills, R. 1966). Sdlg. 33-63. TB, 35", M, W4Y. S. white; F. medium yellow. 31-59 (from involved yellow amoena breeding) X Silvergilt. Wills 1966.
- *WINTER PAGEANT (Palmer, TB, R. 1965). Palmer 1966.
- WINTER SNOWFLAKE (Edith Cleaves, R. 1966). Stylosa, 10", Dec. to March, WLycm. White with yellow signal; back of F. overlay of gold. I. unguicularis stylosa alba X Imperatrice Elizabetta.

- WINTER'S TREASURE (Edith Cleaves, R. 1966). Stylosa, 9", Nov. to March, WLYcm. White self with yellow signal. I. unguiculatis stylosa alba X Imperatrice Elizabetta.
- *WINTRY NIGHT (Pond, TB, R. 1965). Eden Road 1966.
- WISHING HOUR (Glenn F. Corlew, R. 1966). Sdlg. 146-3A. TB, 32", M, Y05L. S. pink, blended yellow; F. yellow, blended pink; bright orange beard. Valimar X Frilly Fringes. HC 1966.
- WISTARIA ENCHANTMENT (W. A. Payne, R. 1966). Sdlg. 1316. Jap, 38", E, BV1L. Lavender-violet self. Midwest Splendor X 1137 (Blue Nocturne x 472).
- *WIZARD (Ghio, BB, R. 1965). Old Brook and Bay View 1966.
- *WIZARD OF OZ (Austin, BB, R. 1965). Rainbow 1966.
- WORLEY PINK (Violet Worley, R. 1966). Sdlg. W-17. Jap, 40", ML, V1P. Lilac-pink self; styles lighter. From Marhigo seeds. Melrose 1966.
- WORTHY (Luella Noyd, R. 1966). Sdlg. N59-8-1. Arilbred, 32", VE-M, W4OY. S. light orchid; F. tan with tannish brown beard. Green Tinge X Capitola.
- WYOMA (Stephana Woodside, R. 1966). TB, 29", M, Y5D. Golden brown self; laced. Mary Randall X Carmela.
- WYOMING CAMPFIRE (Stephana Woodside, R. 1966). TB, 30", EML, Y1F. Bright yellow self. Cloudcap X Glittering Gold.
- YANKEE BOY (Frederick W. Gadd, R. 1966). Sdlg. 7A-60. TB, 38", M, VN1D. Dark violet self; ruffled; black beard. Black Taffeta X Triumvirate.
- *YELLOW GOLD (Noyd, TB, R. 1965). Noyd's 1966.
- YELLOW RIBBON (Mrs. Nick Carstensen, R. 1966). Sdlg. C 15-66. TB, 36", M, Y4Wcm. S. yellow; F. white with yellow edge; ruffled. Ola Kala x Salem X Salem.
- YELLOWSTONE CANYON (E. W. Smith, R. 1966). Sdlg. 59-ES-21. TB, 36", Y1F. Barium yellow self with faint violet undertone in F; velvet sheen. Type Eros X Peggy Wallace.
- *YELLOW WINGS (W. Ferguson, Spuria, R. 1964). Ferguson 1966.
- YOKAYO (Maynard Knopf, R. 1966). Sdlg. 65-18. TB, 36", ML, V1L. Violet (Wilson 36/2) self. Amethyst Flounce X Rippling Waters.
- YOUNG AND GAY (C. and K. Smith, R. 1966). Sdlg. 62-3. TB, 30", EE-M, Y1P. Citron yellow (Ridgway) self; ruffled, flaring. Sumi San X 59-4 (Smith yellow sdlg.).
- YOUNG LOVE (Hazel Schmelzer, R. 1966). Sdlg. 3-4-1. SDB, 9½", ME, B4Rcm. S. cornflower blue; F. ruby edged in fluted edging same color as S. Sdlg. X Enamel Blue.
- YVETTE (Tim Craig, R. 1966). Sdlg. 45Y. Arilbred, 29", EM, W5cm. Amber white and chartreuse blend. Mary McClellan X Wilkes 18-1-3.
- ZARTE ZITRONE (Dr. Hertha van Nes, R. 1966). Sdlg. 0-27B. MDB, 8-10", E, Y1L. Lemon yellow self with self beard. Medium high sdlg. X unknown.

*ZICK ZAIK KRONE (Victor von Martin, TB, R. 1966). See Zig Zag Crown.

ZIG ZAG CROWN (Victor von Martin, R. 1966). (Zick Zaik Krone). BB, 24", M, YlFcm. Yellow self; center of S. and F. bordered white; heavily ruffled. Fairmount 1965.

ZWIELIGHT (Dr. Peter Werckmeister, R. 1966). Sdlg. Luk./3 (1963). TB, 35", L, V5L. S. yellowish orchid; F. same; slightly ruffled. Lukasta (Three Oaks x Hermann Hesse) X (74.01 x Pink Plume) sister to Fruehwind.

ZYZZY (Dr. C. M. Stults, R. 1966). Sdlg. 62-12. TB, 38", LM, YlF. Deep yellow self, more intense at edges of F. Golden Majesty X Mayan Gold.

REGISTRANTS AND THEIR REGISTRATIONS
INTRODUCERS AND THEIR INTRODUCTIONS

Irises registered in 1966 are set in capitals after the name of the hybridizer. Irises introduced in 1966 are set in lower case after the name of the introducer. For purposes of this list, garden names are considered different from the hybridizer, even if same person. Irises both registered and introduced by the same hybridizer in 1966 are set in capitals and underscored.

ABELL, THORNTON and ALMA, 469 Upper Mesa Road, Santa Monica, Calif. 90402.

MOONSHADE

ABERCROMBIE, TOWNE R., 7781 Livingston Road, Cincinnati, Ohio 45239.

REBECCA TOWNE

ALBRIGHT, MARGARET J.; deceased, by Mrs. J. R. Hamblen.
VENETIAN DANCER

ANDERSON, MRS. MARJORIE, 2251 Indiana Ave., Columbus, Ind. 47201
STEEL SMOKE

AUSTIN, GLADYS E. for Lloyd Austin, 2036 Carson Road, Placer-
ville, California 95667.

GREEN DUCHESS, MAGIC ROSETTE

AVONBANK GARDENS, 903 Tyler Ave., Radford, Virginia 24141.
Bliss, Helen Trigg, Lovely Again, Replicata, Siam

BACON, CARL and MABEL, 8619 E. ML Ave., Route 3, Kalamazoo,
Mich. 49001

ENOS, WHITE PINE

BAKER, O. T., 7650 West 4th Ave., Denver, Colorado 80226.
WILDCAT

BALDWIN, JOHN O., 41 Schutt St., Newport W 15, Victoria,
Australia.

SATIN RIPPLES

BAY VIEW GARDENS, 1201 Bay Street, Santa Cruz, California 95060
Mahalo, Royal Tara, Wizard

BEATTIE, RONALD J., 866 N.E. Wait, Canby, Oregon 97013.
LANTERN LIGHT, MISCHIEVOUS, SINGING STRINGS, SUNNYLATION

BECK, MRS. MARGARET, Eagle Bridge, New York 10257.

BECKY, BRIGHT IMAGE, GRAND APPLAUSE, HOT SAND, MISTY HILLS

BENSON, CLIFFORD W., Route 3, Baxter Road, Chesterfield, Mo.
63017

MAESTRO PUCCINI, SILENT SNOW

BENSON, Z. G., 2211 Denver, Wichita Falls, Texas 76301.
Wild Mustang

BETTS, DR. T. J., 50 Green Dragon Lane, Winchmore Hill, London
N. 21, England.

VISITING STUDENT

BIERMAN, MRS. JOHN, Battle Creek, Nebraska 68715.
LITTLE LENA

BLACKLEY, MRS. RAY, 390 West 15 South, Bountiful, Utah.

FALLBRIGHT, PAINTED APACHE, SHOSHONI BRAVE, SUNRISE PEAKS

BLEDSOE, WILLIAM T., Route 4, Fayetteville, Tenn. 37334.

BLUE BONANZA, COTTON CLOUD, MOON MUSIC, SOUTHERN HOSPITALITY, WILD INDIAN. Golden Opportunity, Olive Langdon.

BLODGETT, EUGENE A., 1008 E. Broadway, Waukesha, Wisc. 53186.
REDWOOD EMBERS

BLODGETT, ROMONA A., 1008 E. Broadway, Waukesha, Wisc. 53186
APOLLO'S GIFT

BRIZENDINE, MRS. ROY (MILDRED), 2214 Maryland Ave., Topeka, Kansas 66605.

KATE'S COUSIN, SPRING RAIN

BROWN, ALTA M. (MRS. REX P.), 12624 84th Ave., NE, Kirkland, Washington 98033.

ALPINE HALO, BLUE CAPERS, BRIDE'S PEARLS, BRIGHT BABY, CONSTANT LOVE, DAINTY DAMSEL, DARK TOPIC, DASHING DEB, DOLL DANCE, GOLD LOCKET, HAPPY HOUR, IRISH LILT, ISLE OF DREAMS, JOLLY JOKER, JUNE PROM, JUNGLE KID, LAVENDER LASS, LEMON DREAM, PINK CUSHION, PINK DARLING, PLICUTIE, RASPBERRY FLIP, RED HEART, TWILIGHT SONG

BROWN, MRS. F. ALLEN (FRANCES), 4326 Grandin Road Extension, Roanoke, Virginia 24018.

BUTTERFLY WALTZ, GENTLE PRESENCE, ICE FOLLIES, NATURE'S SPLENDOR

BROWN, G. PERCY, 1603 Main Road, Westport, Mass. 02790.

FALL BLUE CONTRAST, FALL GAYLITE, FALL NOVELTY, FALL YELLOW SUPREME, SEPTEMBER BOUQUET, SEPTEMBER BUTTERFLY

BROWN, REX P., 12624 84th Avenue, NE, Kirkland, Wash. 98033.
BANDED BRONZE, CARTWHEEL, CROWNING TOUCH, FASHION FARE,
LA JUANA, LAKE WASHINGTON

BROWN'S EVERBLOOMING IRIS GARDENS, Barre, Mass. 01005.

Fall Glory, September Chereau, September Gold, Summer Blue Bell, Summer Blue Dress, Summer Paleface

BROWN'S IRIS GARDENS, 12624 84th Ave., NE, Kirkland, Wash. 98033
April Accent, April Var, Arctic Breeze, Arctic Mood, Arctic Night, Blue Olympics, Bongo, Border Rose, Coral Comments, Frosty Top, Green Pixie, June Symphony, Pastel Petite, Silver Wedding

BROWN'S SUNNYHILL GARDENS, Route 4, Box 136, Walla Walla, Wash. 99362.

Dragon Lady, Glacier Sunset, Honor Guard, Lightning Ridge, Olympic Jewel, Silver Trail, Sound of Music, Sunlit Ripples

BRUMMITT, L. W., Bloxham Road, Banbury, Oxon, England.
GRACIOUS LIVING, SUGAR CANDY

BUCKLES, EUGENE, 535 Kathleen, Sikeston, Missouri 63801.
JANICE RUTH, LILA CAROL

BUCKLES IRIS GARDEN, 535 Kathleen, Sikeston, Missouri 63801.
Debra Jean, Juna Kay

BURNS, HARVEY R., 1142 Lincoln Street, Milton, Pa. 17847.
LINDA BURNS

C. & A. IRIS GARDENS, 3224 Northstead Drive, Sacramento, Calif. 95833.
Little Mark

CARLSON, MRS. GERHARD A., 605 North Lyle Street, Kennewick, Washington 99336.

ESPRESSO, HEATHER VALLEY

CARPENTOR, CARL, 119 East 19 Street, Owensboro, Kentucky. OLD VIENNA

CARPER, CHARLES F., 811 South 176, Seattle, Washington 98148. CHIEF SEALTH, PRINCESS LESCHI

CARSTENSEN, MRS. NICK (KATIE), 1327 Hays Avenue, Norfolk, Nebr. 68701.

HIDDEN CARGO, NORFOLK MISS, SPUNKY IMP, WHITE CANDLEGLOW, YELLOW RIBBON.

CHERRY LANE GARDENS, 2988 Cherry Lane, Walnut Creek, Calif. 94598.
County Fair, Rio Roso, Silver Skies

CHOWNING, FRANK E., 2110 Country Club Lane, Little Rock, Ark. DEVIL'S DUNGEON, MISSEY REVELEY

CHRISTENSEN, EDWARD N., 1205 W. Grand Ronde Ave., Kennewick, Washington 99336.
DANCING LIGHT, DAYS DELIGHT, HARBOR VIEW, NEZ PERCE, ORCHID OVATION

CHRISTIE, MRS. DOROTHY, Putiki, Wanganui, New Zealand.
PINK PERSONALITY

CLARK, LEO T., Star Route, Box 1-E, Corning, Calif.
ADDIS ABABA, CORNING, JUDEAN MOON, PLEASANT VALLEY, PROLIFIC, SCRUMPTIOUS, TIDA APA

CLEAVES, MRS. EDITH S., 676 Downing Ave., San Jose, Calif. 95128.
WINTER SNOWFLAKE, WINTER'S TREASURE

COCHRAN, CLYDE, 1325 N. Main, Miami, Oklahoma 74354.
BRIGHT AND BOLD, Sapphirma

COKER, MRS. JOE B., Box 95, Holland, Texas 76534.
SPRING GODDESS

COOK, MRS. PAUL H. (EMMA), R.R. 4, Bluffton, Indiana 46714.
AZURE DOME, RADIANT DAWN, RING BEARER, SABLE ROBE, SPACE MASTER

COOLEY'S GARDENS, Silverton, Oregon 97381.
Alaskan Crown, Heather Hawk, Lorna Lee, Lusty Song, Mad Maid, Native Chief, Radiant Apogee

COREY, MRS. PRESTON (MIRIAM), 707 Pearl Street, Reading, Mass. 01867.
FAIR WINDS, FIRST VALENTINE, SATIN FLOUNCES, SEA BRIDE, STELLULA. Menemsha

CORLEW, GLENN F., 2988 Cherry Lane, Walnut Creek, Calif. 94598.
CHERUB CHOIR, FRANCISCAN FRIAR, KIMZEY, WISHING HOUR

CRAIG, PATRICIA, Route 1, Box 97, Hubbard, Oregon 97032.
REAL TAN, SKY KING

CRAIG, TIM, Route 1, Box 97, Hubbard, Oregon 97032.
AMBULANCE, BALDWIN'S ACE, BEAU PAM, BIG GIANT, BLACK BERRY,

BLOODSPOT, COLUMBA, CONRAD, DEB, DIFFERENT, DOUBLE DECKER, DOWN TOWN, EIGER, INK DROP, JAZZY FALLS, KALIFA KAN, KID SPARK, KING SIZE, LEAH, LIBERTY ROYAL, LITTLE WONDER, LUCKY SPOT, MISS CAMEO, MISS ORCHID, MISS PAM, MT. ST. HELENS, PEACH, POLISH, ROYAL SABLE, SANDWICH, SNOWKID, ULTRA SHADOW, YVETTE

CRAIG, TOM, Route 1, Box 97, Hubbard, Oregon 97032.

ADAMSRED, AFIRE, BABESAN, CANDY PINK, DEVILISH, FRENCH CROWN, JANE BEER, LAUREL OAK, NELLIE CRAIG, NORMA SANTILLAN, OROGUINDA, PINKIE LEA, PINK PLATTER. Ambulance, Baldwin's Ace, Beau Pam, Big Giant, Black Berry, Down Town, Ink Drop, Jazzy Falls, Kalifa Kan, Kid Spark, King Size, Leah, Liberty Royal, Little Wonder, Miss Cameo, Miss Orchid, Miss Pam, Mt. St. Helens, Peach, Polish, Royal Sable, Sandwich, Snowkid, Ultra Shadow.

DALING, MERLE, P. O. Box 336, Waterville, Washington 98858.

LACEDALOT

DE FOREST, MRS. CAROLINE, Route 3, Box 363, Canby, Oregon 97013.
BAYBERRY CANDLE, EVENFALL, FLAXFLOWER BLUE, FLOATING MOON,
LILAC RIDGE, PIXIE CIRCLE, WIDE LODE

DOW GARDEN, RD 2, North Washington Ave., Crestline, Ohio.
Betty Mills, Crestview, Melenard

DUBES, G. W., 2128 Isabella St., Sioux City, Iowa 51103.
SPRING ECHO

DUNDERMAN, MARY LOUISE, 480 White Pond Drive, Akron, Ohio 44320.
Charlie Brown, Clare Louise, Ice Fairy

DUNN, MRS. W. T., 722 Newell, Dallas, Texas 75223
KRISTI LYNN

EDEN ROAD IRIS GARDEN, P. O. Box 117, Wenatchee, Wash. 98801.
Azure Lace, Blue Bayou, Cherry Malott, Cocktail Time, Coloray,
Congo Queen, Cub Scout, Dark Valley, Green Illusion, Jaipur,
Kontiki, Like Magic, Miss Magic, Monsoon, Most Precious, Ric
Rac, Rouge Rex, Rough Rider, Sing Again, Smoke Screen, Viking
Spirit, Wintry Night

ELKINS, CLIFF L., 1445 North and South Blvd., University City,
Missouri 63130.
INDIGO IMP

ENSMINGER, ALLAN, RFD 3, Lincoln, Nebraska 68507.
BURNING EMBER, NEBRASKA NAVY

EWING, NELLYE G., 10848 Poplar Street, Loma Linda, California.
CHANTILLY LACE

FAIL, HILDA, 706 East Inyo Street, Tulare, California.
TONI MICHELE

FAIRMOUNT GARDENS, 166 Fairmount Street, Lowell, Mass.
Adele Stearns, Chestnut Brown, Chimes of St. Paul, Claret,
Dorothy Leavitt, Edna Patterson, Ed Watkins, Land of Promise,
Light of Perth, Olive's Pride, Pearl Velvet, Rookwood Blue,
Sapphire Bouquet

FERGUSON, WALKER, 1160 North Broadway, Escondido, California.
ALLEGORY, ARBITRATOR, BLUE SPIDERWEB, DARK AND HANDSOME, GOOD THUNDER, Red Oak, Yellow Wings.

FLETCHER, H. CASTLE, 10, Gilston Road, London, S.W. 10, England.
SAN POLO

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Grand Rapids, Hallelujah Trail, High Esteem, Hood River Skies,
Little Nell, Pipe Dream, River Queen, Scarlet Ribbon, Silence,
Sunlit Memories, Valse Petite

FOLKERS, REV. PAUL, Anoka, Minnesota.
NORTHERN SKY

FOSTER, DORIS, 321 E. Montecita Ave., Sierra Madre, Calif. 91024.
PERSIAN ART

FOSTER, FRANK J., 3024 Mesa Road, Colorado Springs, Colo. 80904.
FROST FIRE, PIKES PEAK, SCATTERED SHOWERS

FOTHERGILL, H. SENIOR, 17 Lynwood Grove, Orpington, Kent, Eng.
CUMULUS ASCENDANT, MOUNTAIN TOPS

FRAMKE, MABEL, Canby, Oregon
ANGEL CAKE, RIVER QUEEN, SUNLIT MEMORIES

FREUDENBURG IRIS GARDENS, Box 327, Battle Creek, Nebr. 68715.
Geti, Michele Lynn, Pink Bonny

FREUDENBURG, LENA, Box 327, Battle Creek, Nebraska 68715.
CENTENNIAL

GADD, FREDERICK W., 172 Main Street, Wethersfield, Conn. 06109.
LAKE MATTAWA, NUTMEG STATE, YANKEE BOY

GANTZ, CHARLOTTE O., R.D. 1, New Hope, Pa. 18938.
DEIRDRE

GARRETT, MRS. MARGARET B., P.O. Box 614, Hopewell, Va. 23860.
ELIZA W, FRANCES COLE

GASKILL, FERRIS D., Box 232, RR 2, Barrington, Illinois 60010.
CANARY CADENCE, INTEGRITY, JANET MARIE, ROBIN REDBREAST,
THREE GRACES

GAULTER, LARRY, 20124 Catalina Drive, Castro Valley, Calif.
94546.
BACCARAT, CAPE TOWN, HIGH SIERRA

GHIO, JOSEPH J., 1201 Bay Street, Santa Cruz, Calif. 95060.
BABY SHOWER, BAY VIEW, CELEBRATION, CROWNING GLORY, JUNIOR
PROM, MEDITATE, MYSTIC MOOD, WILLOW WISP

GIBSON, J. M., 146 South Villa St., Porterville, Calif. 93257.
NIGHT LINES, SUN SPREE

GOETT, JOHN E., R.D. 1, Monroe, Connecticut 06468.
Fran Jennings

GOODRICK, MRS. H. W. (RUTH S.), 16620 W. Pepper Lane, Brookfield,
Wisconsin 53005.
ENCHANTED SNOW

GRANGER, MARVIN A., P. O. Box 838, Lake Charles, La. 70601.
DELTA STAR

GREENBRIER FARM, Box 232, R.R. 2, Barrington, Illinois 60010.
Charming Co-ed

GREENLEE, MRS. R. E. (WILMA), Chrisman, Illinois 61924.
BIXBY, DANCING ZENITH, DUPLEX, FOREST NIGHT, GLIMMER, INDIAN

FIRE, MYRA, ORANGE KEY, PEARL SHEEN. Daisy Chain, Rich Acres.

GUILD, DOROTHY E., E. 9609 Shannon, Spokane, Washington 99206.

ELEGANT TRY, GALA FIESTA, SPARKLE BRITE, WHISPERING SPRITE

HAGER, BEN R., Route 1, Box 466, Stockton, Calif. 95205.

PEANUTS, PROTEGE, REGARDS, SUSPENSE, TING-A-LING, WESTERN HOST

HALL, DR. C. C., 17 Sollershott West, Letchworth, Herts, Eng.

KING HAROLD

HAMBLEN, MRS. J. R. (MELBA), 2778 West 5600, S., Roy, Utah 84067.

BLUE CANARY, BLUE MINK, CHARMAINE, HEATHER HALO, JANNI, JEWELLED FLIGHT, MUSIC HALL, PIXIE SKIES, TOUCHE

HANEY, MRS. SUSAN H., 7521 Cunningham, Highland, Calif. 92346.

GOLDEN SPECTATOR

HANSON, G. E., 7124 Riverdale Road, Minneapolis, Minn.

PINK WHISTLE

HARDY, MRS. JOHN F., 296 Hunsaker Lane, Eugene, Oregon 97402.

FARAWAY DREAM, KINDRED SPIRIT, SPARKLING WINE, UPLAND GOLD, WESTWIND SORCERY, WESTWIND ZEPHYR, WILDWOOD FANTASY, WILDWOOD GARLAND

HAZZARD, ARTHUR H., 510 Grand Pre Ave., Kalamazoo, Mich. 49007.

Betteryet, Blew Down, Chimade, Gossamer Threads, Rubytone, Stout Fellow, Sun Hat

HENKELMAN, H. H., 4020 Linden Ave., Fort Worth, Texas 76107.

COME CLOSER, GOOD TASTE, NO MISTAKE, SPRING PROMISE, SUPER PINK, UNEEK.

HERD, MRS. JESSE, Box 57, Jacksboro, Texas 76056.

BUTTERFLY BABY

HILDA'S IRIS GARDEN, 706 E. Inyo St., Tulare, California 93274.

Blue Mystique, Rose Reprise, Tule Rainbow, Tule Trumpeter, White Flutter

HILDENBRANDT'S IRIS GARDEN, Star Route, Box 4, Lexington, Nebr. 68850.

Bonnie Kay

HINKLE, GEORGIA M., Scotsboro Road, RR 4, Marion, Illinois

LAZY RIVER, MARION MAID, TEMPO

HOHN, LEWIS E., 96 Birchbrook Drive, Rochester, N. Y. 14623.

Discotheque

HOLLEYMAN, G. W., 1200 Shell Beach Drive, Lake Charles, La. 70601

QUEEN O' QUEENS

HOMACHER, LAVIENE, 19131 Spencer Ave., Detroit, Michigan.

GAY BRINDY

HOOKER, LERTON W., 117 Greenfield Ave., Lombard, Illinois 60148.

GOLDEN CHARMER, MAYFAIR PINK

HOWE, A. C., 81 Merrion Ave., Stanmore, Middlesex, England.

WHISPERING SHADOWS

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Angel Bright, Light and Lovely.

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IRISNOLL, Route 3, Box 363, Canby, Oregon 97013.

Bluebell Lane, Bright 'N Fair, Cadette, Far Gold, Fete Day,
Gold Quest, Tableland

JENSEN, MRS. RAY, RFD 1, Box 194, Logan, Utah 84321.
TONGA MOON

JOHNSON, RALPH A., 4414 E. Flower Street, Phoenix, Ariz. 85018.
JOHNNY'S CHOICE, JOHNNY'S PRIDE

JONES, BENNETT C., 5635 S.W. Boundary, Portland, Oregon 97221.
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RIVER, NORDIC JEWEL, ROYAL MOON

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Brook, Diplomacy, Nineveh.

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CRESTVIEW

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95469.
Erika Executive, Gemini, Hi Value, White King

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ARABECA, BAY AREA, BROAD PACIFIC, GAZOO, LAUNCHING PAD, WEST
COAST, YOKAYO

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BOBBY GENE, PLATTE VALLEY GOLD

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PRIMROSE GOWN

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Helbah, Kelita Ithra, Kelita Jaroah, Kelita Jezebel, Kelita
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SULTAN'S CHOICE, SULTRY

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White Duet

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SPICEWOOD

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COLOUR BRIGHT, CRISP LEMON

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CHARLES W., MARCELLA J

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84337.

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Little Mark, Little Rubient, Lucille Tolman, Madeira Lace,
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Intensity, Saucy Pink, Smoki Dancer, Toni Michele, Vibrant
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GRAND BALL, SPRING FIESTA, SUNKIST CLOUDS

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PRIDE

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PERSONALITY KID

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CAMPUS DANCER

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LIBELLE, MONA LUNA, PURPURMEER, RIWELIN, ROTKAEPPELCHEN,
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HEART AT TEA, WHIRLING CREAM

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Sandy Caper, Snippet.

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PRIDE, JOHN LESLIE, OLIVE'S PRIDE, PEARL VELVET, TEMPIE
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2, Germany.

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GOSAU, ROSEMARY LANE

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HELEN TRIGG



BULLETIN
of the
AMERICAN IRIS SOCIETY

NUMBER 185

APRIL 1967

AMERICAN IRIS SOCIETY SHOW SUPPLIES

(THIS LIST SUPERSEDES ALL PREVIOUS LISTINGS)

P R E P A I D

Official show supplies of the American Iris Society are available from the American Iris Society, 2237 Tower Grove Boulevard, St. Louis, Missouri 63110. Please make checks payable to the American Iris Society. Show reports are to be mailed to William T. Bledsoe, Chairman Exhibition Committee, Route 4, Fayetteville, Tennessee 37334. All orders are forwarded by prepaid parcel post.

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4. **Clerks' records.** For recording winners in each class. One needed for each class. Punched so they can be inserted in a notebook and made part of a permanent record 1 cent each
5. **Award ribbons.** Blue, first; red, second; white, third; pink, honorable mention. Imprinted with AIS seal and Premium Award. First-quality ribbon. 15 cents each
6. **Award ribbons.** Smaller than 5, but otherwise the same. Meant for median and dwarf shows 12 cents each
7. **Award cards.** Same as award ribbon (5) except on card 2 cents each
8. **Purple Rosette:** AIS seal on middle streamer, American Iris Society on one outside streamer, on the other outside streamer—
 - A. Best specimen of show 1.00 each
 - B. Best arrangement of show 1.00 each
 - C. Horticultural sweepstakes 1.00 each
 - D. Artistic sweepstakes 1.00 each
 - E. Seedling of Show Most Worthy of Introduction 1.00 each
9. **Small purple rosettes**
 - A. Imprinted Horticultural Class, Special Award. May be awarded for best of group; i.e., best white self, best blue self, best plicata, best bitone, best blend, best collection, or any other special award 65 cents each
 - B. Imprinted Artistic Class, Special Award. May be awarded to best of any group in artistic or composition classes, or any other special award in artistic classes 65 cents each
 - C. Best specimen of show, Junior Division 65 cents each
 - D. Best arrangement of show, Junior Division 65 cents each
 - E. Horticultural sweepstakes, Junior Division 65 cents each
 - F. Artistic sweepstakes, Junior Division 65 cents each
10. **Section rosette.** Midway in size between 8 and 9. May be awarded to best specimen in each section (tall bearded, border, miniature tall bearded, spuria, Siberian, Louisiana, Japanese, etc.) 75 cents each
11. **Silver or Bronze medals.** Not engraved. Orders for these medals should accompany show report sent to the Chairman, Exhibitions Committee. Supplied without cost to AIS Affiliates 3.50 each
12. **Seedling ballots.** One should be given to each AIS judge who visits the show; to be used by judges in voting for the Exhibition Certificate No charge
13. **Report and application for award.** One set in triplicate for a show. One copy to be mailed immediately after the show to Chairman, Exhibitions Committee; one copy to be mailed to the RVP; and the third copy to be retained for the club files. No charge

THE BULLETIN *of the* AMERICAN IRIS SOCIETY

NO. 185

APRIL 1967

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J. Arthur Nelson, *Editor*

3131 North 58th St., Omaha, Nebr. 68104

Kay N. Negus, *Assistant Editor*

4009 North Shannon Ave., Bethany, Okla. 73008

Associate Editor

Mrs. Peggy Burke Grey, 8191 Franz Valley Road, Calistoga, Calif. 94515

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MEDIAN IRIS SOCIETY

Mrs. F. W. Warburton, R. 2, Box 541, Westboro, Mass. 01581

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Mrs. Foster R. Spofford, 20 Sherwood Meadows, RFD 1, Suncock, New Hampshire 03275.

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Mrs. Stayton Nunn, 11122 Claymore Drive, Houston, Texas 77024

SOCIETY FOR JAPANESE IRISES

William E. Ouweneel, R. 5, Box 344, Terre Haute, Indiana 47802

The *Bulletin* is published quarterly by The American Iris Society. Publishing office, 2237 Tower Grove Blvd., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2237 Tower Grove Blvd., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see page 3.

The *Bulletin* is printed by The Williams Printing Company, Nashville, Tenn.

THE AMERICAN IRIS SOCIETY

A non-profit institution incorporated Feb. 2, 1927, in the County of Philadelphia, State of Pennsylvania. By the terms of the Charter, the Corporation has no stockholders and exists for the sole purpose of promoting the culture and improvement of the IRIS.

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THE COVER PICTURE of the April BULLETIN is of Chet Tompkin's ethereally beautiful RIBBON ROUND.

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The conditions under which a special-interest group may become a Section for AIS are—

1. The American members of the society must be members of AIS.
2. Its bylaws must be approved by the AIS.
3. Participation in the AIS registration and award systems is required.
4. Provision for publication of articles of general interest, exclusive of newsletters, may be arranged.

The president of a Section is a member of the AIS Board of Counselors, and societies having Sectional status will be listed in the AIS *Bulletin*.

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2. Participation in the AIS registration and award system is required.
3. Societies having less than 50 percent of their members belonging to AIS, and meeting the other conditions, will be required to pay an *annual* fee of \$25.00.

The names of societies given Affiliate status will be published in the *AIS Bulletin*.

Inquiries and applications for affiliation should be addressed to Mr. Edward E. Varnum, 550 So. Princeton Ave., Villa Park, Ill. 60181.

To SECRETARIES OF AFFILIATES: Please report promptly the names and addresses of new presidents to the Editor as well as to Mr. Varnum.

From the President's Desk

BEING snowbound has distinct advantages, with roads impassable and no mail delivery it gives one an opportunity to clear the desk of those letters that have been neglected for the more urgent ones that have priority. The heaviest snowfall on record in the Chicago area and a repeat performance within a week left us with a winter wonderland, a beautiful white world to view from indoors. We had hoped for an early spring, and still do; but wonder if the daffodils and dwarf irises can possibly be in bloom by the time the April BULLETIN arrives.

Letters and pictures from Florence, Italy, tell of the terrible devastation caused by the flood; but it also brought happy news that the Iris Test Garden located on the hillside of the Piazzale Michelangelo above the flood level was one of the few sections of the city that was undamaged. Of the fourteen hundred and fifty copies of the Symposium Books in storage there, only thirty or forty were salvaged by washing and cleaning; the balance were soaked with fuel oil and had to be destroyed. The hundred and fifty copies that we had here have been sold and no more are available. Those sold in Europe and here number about seven hundred, the only ones in existence, so they have actually become collector's items.

The last copies of *Garden Irises* have been sold. Revising and financing a new edition will be an important item on the agenda at the next Board meeting.

From Japan comes the news of the organization of The Japan Iris Society for "tall bearded and rhizomatous irises," with temporary headquarters in Osaka. Congratulations have been sent with a request for more information and an offer to cooperate.

From Poland comes a request for slides of Dwarf, Median, Siberian and Japanese Irises for lecture purposes. Modern American irises are almost unknown there and new importations are made only through official channels, unless sent as gifts to individuals.

Foreign Iris Societies are being contacted regarding participation in a second International Iris Symposium which would be held at the time of the 1970 New York Convention. The decision will depend on the response and our ability to finance it.

All committees have been appointed, and the transition of the Directorship of the Robin Program to Bill Krasting has been accomplished and continues in the same efficient manner as before. So we anticipate the coming of spring and the Denver convention.

HUBERT A. FISCHER

YIPPEE!



HEAD FOR DENVER

AIS 1967 ANNUAL MEETING

Region 20—Welcomes
You

MAY 31—JUNE 3

Convention Headquarters
Cosmopolitan Hotel
18th and Broadway

Registration limited to
a maximum of 600

Registration Fee—
\$42 for complete program.
\$37 if received before May 1st.

Send registration with check or money order to—

Everett L. Cline
991 South Columbine St.
Denver, Colorado 80209

Make check payable to—American Iris Society, Region 20

HOTEL RESERVATIONS—

A block of 300 rooms has been reserved at the Cosmopolitan hotel, and reservations should be sent direct to them. Mention the AIS when making reservations

	Standard	Medium	Deluxe
RATES—Single	\$11.50 — \$13.50	\$14.50 — \$16.50	\$17.00 — \$29.00
Double			
1 double bed	\$16.50 — \$18.50	\$19.50 — \$21.50	\$22.00 — \$33.00
Twin bedroom			
2 twin beds	\$18.50	\$19.50 — \$21.50	\$22.00 — \$33.00
Suite	\$30.00 — \$75.00		

We suggest early registration as **ONLY** 300 rooms have been guaranteed.

There are other hotels and in-town motels within walking distance of the Cosmopolitan, and this information can be obtained by writing to—

The Denver Convention and Visitors Bureau
225 West Colfax, Denver, Colorado.

PROGRAM—

WEDNESDAY—MAY 31

8:00 A.M. to Noon—Registration

1 P.M. to 5:30 P.M.—Tour Local gardens and Denver Botanic Garden.

6:30 P.M.—Social Hour—Cosmopolitan Hotel

THURSDAY—JUNE 1

8:00 A.M.—Tour Alphar Gardens, Arvada; Long's Garden, Boulder; Jorgenson Garden and Colorado State University Experimental Garden at Fort Collins.

FRIDAY—JUNE 2

8:00 A.M.—Tour Dr. Loomis, Dr. Adams, and Dr. Brown gardens in Colorado Springs. Also visit U.S. Air Force Academy, Garden of The Gods and see Pikes Peak. Lunch at the Flying W Ranch.

SATURDAY—JUNE 3

8:00 A.M.—Tour Baker's Acre garden and Denver Botanic Garden.
Lunch at Botanic Gardens.

Flower Arrangement Show in afternoon.

6:30 P.M.—Banquet—Silver Glade—Cosmopolitan Hotel.

We are sure WE will enjoy every minute
of your stay with us.

REGISTER NOW.

Complementary Gene Basis for Anthocyanin Production

ALICE ATCHISON

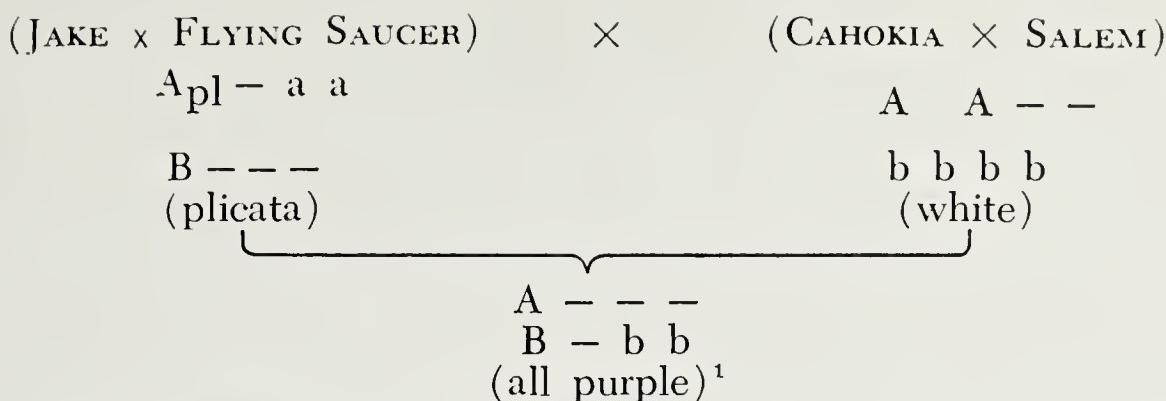
Studies of color inheritance in tall bearded iris have revealed that anthocyanin production is too complex to be governed by a single gene, however numerous its alleles. Therefore, a complementary gene theory has been postulated which tends to explain many otherwise baffling observations. While it is realized that complementariness is difficult to prove exclusively, appropriate crosses have been made, and the results are presented in support of this theory.

Two presumed recessive whites have been crossed to produce all-purple progeny. The pollen parent was derived from JAKE, which has long been recognized as a standard "recessive" white from plicata breeding. In the present study, JAKE will be considered recessive for factor "A." The pod parent was derived from two light blue varieties, CAHOKIA and SALEM. This seedling will be considered recessive for factor "B." Factors "A" and "B" are controlled by two dominant independently inherited genes. The presence of both "A" and "B" is required for anthocyanin production. Their respective recessive alleles "a" and "b" are inactive.

(JAKE x self)	×	(CAHOKIA x SALEM)
a a a a		A A --
B B --		b b b b
(white)		(white)
	{	
A - a a		
B - b b		
(purple)		

The gene responsible for the plicata pattern may be considered an allele at the "A" locus, recessive to "A" but dominant to "a", as determined by the following crosses:

JAKE	×	FLYING SAUCER
a a a a		Apl Apl --
B B --		B B --
(white)		(plicatas)
	{	
Apl - a a		
B B --		
(plicatas)		



The gene determining the amoena pattern appears not to be an allele of either "A" or "B," since crosses of WABASH with either the JAKE or SALEM recessives produce all neglectas. Tentatively, it is considered that amoenas contain both "A" and "B" factors, with the addition of an *inhibitor*.

It is to be noted that the foregoing classification does not introduce any "new" gene in addition to those recognized by Randolph and Sturtevant, and discussed so comprehensively in Chapter 24 of *Garden Irises*. The reclassification is intended, merely, to emphasize the complementary relationship between two genes. Although the idea of complementariness is implicit in the genetic analysis presented by Randolph and Sturtevant, it seems to be obscured by the designation of the appropriate genes as "W" and "Pl." Therefore, the letters "A" and "B" were preferred to indicate the primary role of these dominant genes in color production. (It appears to the writer that a solid colored flower could be represented less ambiguously by the genotype, A---, B---, than by W---, Pl---.) Furthermore, since "A" is essential for anthocyanin production, it would seem that "pl" should be subsidiary to it, representing merely one recessive allele responsible for the plicata pattern.

The following designations under the two systems may be considered equivalent:

Proposed Classification	Current Classification
A	Pl
Apl	pl
a	wpl "all-white"
B	W
b	w ₁

The "w₂" symbol which was tentatively assigned to whites from light blue breeding would appear to be superfluous. In most instances, such as in SKY ABOVE, CAHOKIA, and SALEM, it is equivalent to the recessive "b." In other cases, there are indications that blues (with the probable genotype, Aaaa) have produced white offspring, homozygous for "a."

However, regardless of nomenclature, it can be demonstrated that a complementary dependence exists between two independently inherited genes controlling anthocyanin production. It is hoped that attention to this relationship will help to clarify a complex situation and make it more comprehensible.

¹ Although the progenies cited in this paper contained only the colors mentioned, this does not preclude the occurrence of exceptional individuals within larger populations.

1967 Introductions

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12624 84th Ave. N.E., Kirkland, Washington 98033 (Seattle Area)

Free non-color catalog featuring tall, median and dwarf bearded irises.

BANDED BRONZE: (SERENE SERENADE X INCA CHIEF). 36". Ruffled bronze standards and golden falls, banded with one-half inch of dark brown. E.C. 1965	\$25.00
CROWNING TOUCH: (CELESTIAL SNOW X IVORY LACE). 38". A heavily ruffled and fluted pure white with a bright lemon yellow beard. Distinctive personality.	\$30.00
LA JUANA: (GREEN QUEST X JAN ELIZABETH). 38". A large, wide, ruffled and lacy flower with peach pink standards and blended pink and yellow falls; bright bushy tangerine beard. Excellent form, substance and branching. Named for our daughter	\$30.00
LAKE WASHINGTON: (Sister to SILVER WEDDING). 36". A beautiful, heavily ruffled lobelia-blue with ivory beard on broad, flaring falls.	\$25.00

MEDIAN AND DWARF BEARDED IRISES

DARK TOPIC: (GREAT DAY X SABLE NIGHT). BB. 23". A rich, dark red-black bitone with bronze beard. A real cute darkie for the front of the border	\$10.00
PINK DARLING: (TECHNY CHIMES X YELLOW DRESDEN). BB. 24". A bright, clear pink of good shape and substance with carrot-red beard. Dainty and sweet	\$15.00
DAINTY DAMSEL: (DAINTY DANCER X DESERT QUAIL). MTB. 18". Standards clear yellow; falls pale yellow dotted and veined with lavender. Good shape and many buds.	\$5.00
ALPINE HALO: (GREEN HALO x SNOW ELF) X Ib-Mac. IB. 18". Lavender-blue standards; clean, smooth chartreuse-green falls. Brown beard tipped blue. Onco form.	\$10.00
ISLE OF DREAMS: (SNOW FLURRY x SNOW ELF) X WHOLE CLOTH. IB. 26". Pale icy blue standards; flaring white falls with white beard. Excellent form and substance	\$10.00
JOLLY JOKER: (KNOTTY PINE X LUCY LEE). IB. 22". Yellow standards, sanded rose brown; yellow falls with just the edges stitched and sanded rose-brown.	\$7.50
JUNGLE KID: (Sister to ARCTIC NIGHT). IB. 16". A different and unusual blend of brown and smoky purple with a smoky blue beard. Good form	\$7.50
JUNE PROM: (SNOW ELF X LOVILIA). IB. 22". A beautiful and exotic, ruffled light blue with blue-green pattern around the blue beard. Extra heavy substance.	\$10.00
RASPBERRY FLIP: (IRENE BROWN x MAY HALL) X TANGAROSE. IB. 24". A bright raspberry rose-pink with bright tangerine beard. Good shape and substance.	\$7.50
BRIGHT BABY: (ROSY TREASURE X ARCTIC ROSE). SDB. 13". Brilliant deep orange bitone with rounded flaring falls. Makes a very bright spot in the garden.	\$5.00
CARTWHEEL: (Sister to SUNNY HEART). SDB. 14". A wide flaring ivory-cream with a large round brown spot on the falls. Beautiful shape.	\$5.00
IRISH LILT: (IRISH DOLL X AQUA GREEN). SDB. 11". Clean ivory-white standards and real blue-green falls that are wide, rounded and horizontally flared.	\$7.50
LAVENDER LASS: (DARK FAIRY X self). SDB. 11". A well-formed sea-lavender with faint suggestion of spot pattern around the lavender beard. Lovely color.	\$7.50
LEMON DREAM: (Sister to ROYAL CONTRAST and SPRING FAIRY). SDB. 14". Lemon-yellow standards; darker lemon falls, lighter at the edges. Bright lemon beard. Excellent form. \$7.50	
RED HEART: (M 61: SNOW FLURRY x SEA O'BLUE) X LILLI-VAR. SDB. 13". Lavender-blue standards and bright oxblood-red falls with one-fourth inch even border of lavender-blue. Excellent form; beautiful and different. H.C. 1966	\$10.00
PINK CUSHION: (MEMPHIS BELLE x CARPATHIA) X sib. SDB. 12". A beautiful, clear pink dwarf with tangerine beard, good shape and very floriferous. Fertile both ways.	\$12.50
PLICUTIE: (ROCOCO X CRETICA). SDB. 13". Beautifully shaped pure white with a narrow edge of orchid stitching around all petals. Deeper orchid crest and orchid tipped beard. \$7.50	
BLUE CAPERS: (CUTE CAPERS X ROSY CARPET). MDB. 4". A beautiful pumila of sea-blue with rosy wash over the center of the falls; white beard; flared form.	\$4.00
DOLL DANCE: (WHITE CHAMAEIRIS sdlg. X CUTE CAPERS). MDB. 6". Light blue standards with green midrib; light blue falls, blended green and blue beard. Gives a turquoise effect.	\$4.00
GOLD LOCKET: (APRIL MORN x unknown) X (LITTLE CHARMER x CARPATHIA). MDB. 4". The brightest orange dwarf yet seen. Orange beard; very floriferous; blooms with the pumilas.	\$4.00

MORE CALIFORNIA FLAGS FROM *Keith Keppel*

**517 NORTH ANTEROS AVENUE
STOCKTON, CALIFORNIA 95205**

1967 *Introductions* . . .

SHORT STORY ML. 30". Rococo X WHOLE CLOTH. This has been a "small tall" in California and a "big border" in Oregon. Take your pick—either way it is thoroughly charming. A sib to DIPLOMACY, this was the latest and smallest of the cross. Standards are pale blue; falls are violet. There is an almost-white area near the beard, which is blue tipped yellow. Ruffled, with flared round falls and closed standards. Three or four branches plus terminal. HC 1966 \$20.00

PREAMBLE E. 20". Intermediate. Sass F53-1 X (PROGENITOR x ROYAL BAND). This perhaps will be a "preamble" or "introduction" to a new line of plicata breeding: an "amoena-plicata" from PROGENITOR lines. Standards open ice white and fade to pure white, with no markings. Falls are white with a stitched and stippled haft area and plic border of veronica-violet. Beard is white, faintly tipped pale lemon. Style arms are white, tinted heliotrope. Form pleasing, though rather plain, with just a slight bit of ruffling. As an added asset, it has been a reliable fall bloomer in northern California, but is untested elsewhere. \$7.50

1966 *Introductions* . . .

BABBLING BROOK M. 38". GALILEE X SYMPHONY. Light blue with accent on form and color. \$22.50

DIPLOMACY EM. 32". Rococo X WHOLE CLOTH. Light violet-blue standards; medium violet falls. Extremely floriferous. Stock limited. \$22.50

NINEVEH E. 28". BANG X CAPITOLA. Wild magenta-violet and tan with rust-brown beards. Grows best with full TB culture. \$16.00

JULY DELIVERY

Lifetime Plastic Plant Markers

LIFETIME MARKERS are used by both amateur gardeners and commercial growers as an attractive, long-lasting method for identifying and pricing plants and shrubs. Permanent, will not rot, easy to read, remains clear and plain even if covered with soil over winter. The writing can be removed with scouring powder or fine steel wool and the label can be used again and again. Remains neat and clean. One of the things we like best is the saving in time required to prepare labels at planting time.

The Tie-on Tags are popular with those who wish to fashion their own steel stakes from heavy wire.

Sample Assortment: 10 each of A, C, D, F and 5 each of B and H for \$1.00.

THRIFTEE MARKERS are made of lighter gauge plastic. They are used by commercial growers, nurserymen and florists . . . wherever durable, attractive plant markers are required in quantity at a minimum price.

Sample Assortment: 125 Thriftee Markers for \$1.00.

THRIFTEE SNAP-ON TAGS eliminate the need for wires or strings. They are snapped into place with a slight twist and stay until removed the same way.

The 3 inch SNAP-ON TAGS are used extensively by hybridizers of irises and daylilies. We use the square SNAP-ON TAGS in our iris and daylily display garden. They are snapped on under the flowers for garden visitors to see name and price.

Lifetime Markers, Thriftee Markers and Snap-On Tags are available in pure white and spring green except Styles F, J and K, which are made only in pure white. Pure white will be sent if spring green is not specified. Add 60¢ for counting if 1000 markers are ordered part white and part green.

TERRACLOR 75%

For SOFT ROT and CROWN ROT (Mustard Seed Fungus)

Just mix one tablespoonful of Terraclor 75% in one gallon of water and saturate the iris plants and soil with the solution. If only a few plants to treat, dust the plants, rhizomes and soil with Terraclor 75% and it works like magic.

A famous iris hybridizer used Terraclor solution as a spray for leaf spot and claimed she had excellent results. We now use Terraclor for leaf spot.

POSTPAID PRICE IN U.S.A.

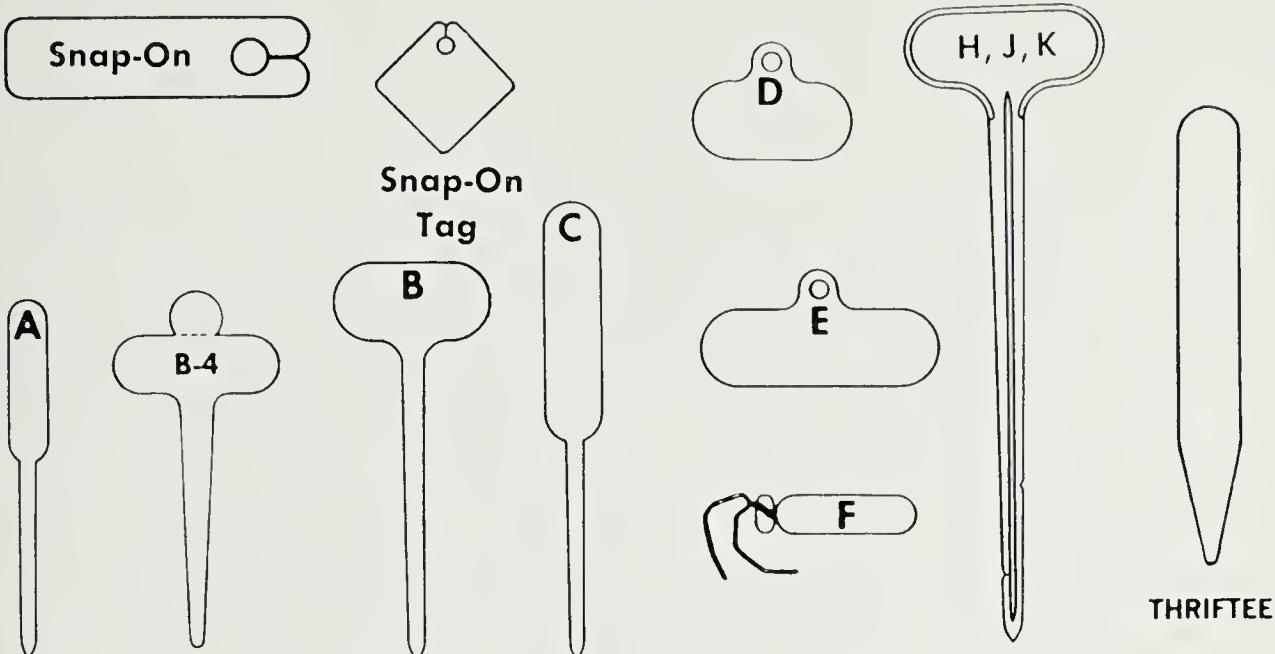
TERRACLOR 75%—3 lbs. \$4.75

Prices subject to change without notice.

Gable Iris Gardens

2543 38th Ave. So., Minneapolis, Minn. 55406

Lifetime Plastic Plant Markers



POSTPAID PRICES IN U.S.A.

LIFETIME MARKERS	50	100	500	1000
A—4½" Vertical Stake	\$.75	\$1.25	\$5.50	\$8.25
B—4" Tee Stake90	1.50	6.00	9.00
B—2" x 5" Tee Stake	1.75	2.75	11.00	16.50
C—6" Vertical Stake	1.50	2.25	10.00	15.00
D—1" x 2" Tie-on Tag, with wires	1.35	2.00	9.00	13.50
E—1" x 3" Tie-on Tag, with wires	1.60	2.40	10.50	15.75
F—½" x 2" Notched Tag, with wires75	1.25	5.00	7.50
H—2½" x 8" Tee Stake	3.00	5.00	21.00	31.50
J—3" x 12" Tee Stake	5.00	9.00	37.50	56.25
K—4½" x 18" Tee Stake	8.00	15.00	67.50	101.25
P—1" x 12" Vertical Stake	4.00	7.00	26.00	39.00
THRIFTEE MARKERS	100	200	500	1000
4" x 5/8" Pure White or Spring Green	\$.75	\$1.30	\$2.50	\$3.90
5" x 5/8" Pure White or Spring Green	1.00	1.80	3.65	4.80
6" x 5/8" Pure White or Spring Green	1.15	2.10	4.10	5.40
8" x 5/8" Pure White or Spring Green	1.45	2.60	5.40	7.20
SNAP-ON TAGS	100	200	500	1000
3" x ¾" Pure White or Spring Green	\$.90	\$1.45	\$2.80	\$4.30
2" x 2" Pure White or Spring Green	1.40	2.50	4.80	6.85

WEATHERPROOF PENCILS, 2 for 35¢, 12 for \$1.50.

Gable Iris Gardens

2543 38th Ave. So., Minneapolis, Minn. 55406

Changing Times

A. F. BLOESE

We are indebted to Cayeux of France for the first modern iris. I bought PLUIE D'OR, VERT GALANT, MARQUITA, JEAN CAYEUX, CLAUDE AUREAU, NENE, ZAHAROON and others, all of which at the time were outstanding. Mrs. Douglas Pattison published one of the first color catalogs. Prices ranged from \$25.00 to \$75.00 each, and this was at a time when the dollar was more robust than it is today. The Sass brothers astonished iris enthusiasts by offering many new varieties with brighter and cleaner colors, including some hues that had not been seen before. Later Cook, DeForest, Fay, Gibson, Hall, the Schreiner brothers and others also made sensational progress in iris breeding.

The increasing popularity of the modern iris has not only been due to the improvement in the flower itself but to color catalogs, especially those of Cooley and Schreiner. We have enjoyed these beautiful examples of the printer's art for many years.

The cost of postage, cartons, excelsior, advertising (when one considers the returns), color printing and cuts has more than doubled in the last forty years. Twenty-five dollars for a new introduction put on the market by a grower who supplies a color catalog with as many as fifty pages is a bargain when one considers the cost of putting this newcomer into a customer's hands.

The groundwork was laid by the aforementioned gentlemen so now hundreds of pollen daubers who make thousands of crosses every year have a much better chance of producing a Dykes Medal iris than holding a winning sweepstakes ticket. It will be noted that the parents of many award winning varieties are just the result of hybridizing good named iris. The tedious line breeding which amateurs shun has been done for them.

Some years ago, along with many other growers, I sent out a color catalog. Full page iris advertisements in color, even double page spreads, appeared in the two leading garden magazines. There were also many smaller advertisements. The returns were uniformly good.

Every fall a dozen or more leading growers met in Chicago to discuss business and to have a rollicking good time. Representatives of the magazines in which the growers advertised entertained them and their wives very lavishly indeed. A favorite spot was the Pump Room of Chicago, perhaps the most expensive in the "Windy City." Champagne flowed freely and pheasant under glass and other expensive dishes were served. The goose hung very high and prosperity had, it seemed, come to stay.

The villain that brought about a doleful change was changing times. One year the usual invitations from the magazines did not arrive. Their pages carried less and less iris advertising. The pulling power of these advertisements grew weaker and weaker. In some instances it cost as much as two dollars to sell a catalog for a quarter.

To make matters still worse, parcel post rates rocketed to almost dizzying heights. The cost of labor and everything else connected with the iris business shot upward. The last year I had a color catalog my receipts were about fifty thousand dollars, but I had a six thousand dollar loss.

From BAY VIEW GARDENS

High above the shores of Monterey Bay

We present an outstanding

Collection of 1967 introductions

For your enjoyment . . .

Joseph J. Ghio

1201 Bay Street

Santa Cruz, Calif., 95060

The alphabet being what it is, we first offer Baby Shower, a 24 inch border bearded creation. It is a very broad and ruffled snow white self including the beard. Visitors have referred to Baby Shower as a miniature

BABY Winter Olympics, and well they might since it contains many of the characteristics of that fine iris as well as being a near relative.

SHOWER Four branches and terminal and the bottom branch is rebranched. The rhizomes are small and low growing in keeping with the height. No. 62-34B: FIRST COURSHIP X POET's DREAM. \$15.00

Our namesake, Bay View, is our second introduction. Just imagine the smoothest shade of hyacinth blue possible; now blend in a dash of violet. Add extremely

BAY broad and ruffled falls which nearly overlap. Then top it off with firmly held domed standards, and you have Bay View! Adequate

VIEW branching and on the short side (30-32 inches), but for sheer elegance in form and beautiful clear lush color, Bay View is without a peer. No. 62-101T: MELISSA X FIRST COURSHIP. \$20.00

A regally serene iris from royal breeding, Meditate, is our next presentation. Form, branching, and growth habits fulfill the fondest expectations. Classic modern

MEDITATE form with the semi-flaring falls being extremely wide and with corrugated ruffling; the standards are firmly held and are as ruffled as the falls. Wide branching with perfect placement will make Meditate a top show contender. The cool white contemplative color with just the subtlest tinting of blue makes this distinctive tranquil beauty. There is an intensification of blue in the heart of the flower and the beard is in harmony. No. 63-102K: (PACIFIC PANORAMA x BY REQUEST) X FROSTED STARLIGHT. \$25.00

Still feeling the call of Shangra-La, we present the result of our intensive bicolor breeding, Mystic Mood. This early beauty has light blue-lavender standards with

MYSTIC darker blue-lavender falls, textured darker; a deep and subtle neglecta. The bloom is very large and ruffled in the manner of Celestial Snow,

MOOD unusual qualities for this class. Thirty-eight inches in height with four branches and terminal with the lower branch rebranched makes Mystic Mood an outstanding show iris. For us it produces an average of five increases on a one year planting. No. 62-185D: TWILIGHT SONATA sib X MOUNT EDEN. H.C. '66. \$25.00

The name, Oasis, should suggest the coloring of this offering. We have been in pursuit of green for 13 years, and with Oasis we reached a new plateau—medium sized blooms of yellow-green which appear quite green in cooler weather.

OASIS The falls have a blue infusion which intensifies the green effect. Good branching and light ruffling complete this cool new iris. Oasis and its sibs produced some fantastic seedlings last spring in greens, yellows with brown beards, and unique French vanilla colors! No. 62-24Y: MEADOW MIST X (PRETTY QUADROON x FROSTED STARLIGHT). \$25.00

Free catalog available

It was quite apparent that it was necessary to make a drastic change to avoid bankruptcy. We built a large walkin refrigerator under a new office building. We cut stalks of iris when the terminal bud had emerged from the sheath and wrapped them in green florist paper in bundles of three. The name of the variety was stapled to the tip of each bundle, care being taken to avoid pinching the bud. To prevent the buds from unfolding, they were packed in an air-conditioned room and rushed to the refrigerator as soon as possible. We found that a uniform temperature of 34 degrees F. gave the best results. The buds remained in good condition for as long as two weeks, thus making it possible to exhibit both early as well as late varieties. The stalks were shipped by air to arrive in the afternoon, when they were placed in vases. They all opened the next morning. Expensive irises may be exhibited for window dressing. Twenty-five dollar varieties will cause a great deal of conversation but will not sell. Many rhizomes will be bought by gardeners who have never seen a modern iris. Good standard varieties at a dollar each are in greatest demand. Sales are largely the result of impulse buying. For a successful exhibit a great deal of traffic is needed. A good show should produce sales amounting to \$8,000; at least this was our experience.

Unfortunately this method of selling irises had one serious drawback—work. After getting up before daylight to cut the buds and trying to find early morning help, I felt that there must be an easier way to sell irises. I switched to packaging irises and selling wholesale. This field is wide open. After one has a sufficient number of customers there is no selling cost. We have also found that there is a good market for irises in Europe.

Of course, in selling bare root or boxed irises, the rhizomes must be of good quality. We lined the plants out in rows 42 inches apart, leaving at least 12 inches between plants. Two nimble young men, using a planter, can line out 60 irises a minute. Long rows cut down expense. I have found that by using cover crops and giving the soil a rest of a year or two between plantings, borers may be combated so successfully that insecticides are not needed. If the men, while hoeing, spot evidence of a borer's presence they cut the fan below the borer.

The women who cut the leaves with shears complained so much about blisters that I decided to do something about it. After some experimentation I produced a machine that trims the fans any length desired. Its production is only limited by the speed of the operator. One boy went along at a pace of 60 a minute.

Can an iris be sold for ten cents at a profit? I have demonstrated that this is possible, but only in large lots of a variety, preferably a thousand. It is also necessary to employ every labor saving means available and to grow irises that multiply rapidly and produce good sized rhizomes. The varieties I used were listed in retail catalogs at a dollar. These irises were usually sold by our customers in collections at the usual collection rate. Their high selling cost makes the ten cent price necessary. Exposing thousands of gardeners to do good standard varieties produces some fans who eventually may even become members of the American Iris Society.

Will the magnificent color catalogs which represent an investment of many thousands of dollars in cuts alone, not mentioning the high cost of printing,

The Cherry Lane Gardens of
GLENN F. CORLEW
2988 CHERRY LANE
WALNUT CREEK, CALIFORNIA
94596

NEW FOR 1967

KIMZEY	\$25.00
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An air of stately charm and regal bearing is projected by this crisp and full-petaled new iris. Beautiful branched stalks with three perfectly placed blooms are a standard performance. The well-held standards are a delicate peach-pink with falls centered warm white and edged the same shade as the standards. A tangerine beard adds accent. Petals are encircled with a fine, intense ruffling which sets this variety apart. Good plant habits and generous bloom. Fertile both ways. 34". Midseason. Seedling #224-4B. VALIMAR X ((SNOW FLURRY x PINK FORMAL) x FROST AND FLAME). HC 1966.

WISHING HOUR	\$25.00
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A delightful blend of bluish-pink and canary-yellow. The domed standards are predominately pink with shadings of yellow, while the widely flaring falls are a reverse of the same color combination. Hafts are extremely broad, almost overlapping, and start a cascade of pleated ruffles that extend down the side of the falls. Weather resistant substance. Heavy orange beard. Healthy foliage lightly brushed purple at the base. Fertile both ways. 32". Midseason. Seedling #146-3A. VALIMAR X FRILLY FRINGES. HC 1966.

Previous Introductions

CAROLANDS (1965)	\$15.00
Coral-apricot blend. HM 1966	
COUNTY FAIR (1966)	\$22.50
Canary-yellow self. HC 1965	
RIO Roso (1966)	\$22.50
Flaring rose-pink. HC 1965	
SIGNATURE (1965)	\$22.50
Alabaster-pink. HC 1964, HM 1966	
SILVER SKIES (1966)	\$20.00
Silvery blue-lavender	

*Order direct from this Ad,
or send for Catalog.*

eventually disappear, depriving iris fans of the pleasure of perusing these beautiful publications! Growers who publish color catalogs for our edification and delight are certainly worthy of our patronage. Perhaps the important role that they have played in popularizing the iris has not been fully appreciated.

For several years I have been trying to sell enough iris to reduce our plantings to what I can handle just for pleasure. This year I was successful, and it is about time since I am past the three score and ten mark. I still hope to grow iris for some years and to hybridize for my pleasure, but do not expect to add to the hundreds of excellent new introductions produced each year, many of which I will no doubt grow.

To dispel the gloom of this piece, I should add that there never was a better time for a young man to get into the iris business than today. All that is necessary to be successful is to adopt the procedures needed to keep in step with changing times.

A Down-to-Earth Look at the New Requirements for AIS Judges

WILLIAM T. BLEDSOE

1. INTRODUCTION

One of the most progressive and far-reaching actions taken by the AIS Board of Directors in recent years is a double-barreled motion approved at the November 1966 meeting in Denver. It effectively implements the recommendation made by the RVP's at Newark in May 1966: That the Board provide a means for familiarizing AIS judges and members with the concepts of iris evaluation and appraisal that are contained in the *AIS Handbook for Judges and Exhibitions*, 1965. The text of this directive was published as a part of the Minutes of the Board Meeting in the AIS BULLETIN, January, 1967. It provides, effective November 1, 1968, that:

a. AIS Garden Judges and Exhibition Judges will be combined into one class, AIS Judges, with dual duties of judging both in the gardens and in the shows.

b. Adopted Guidelines setting out minimum requirements for training and accrediting AIS Judges will be implemented by the individual regions. (These Guidelines are published in another portion of this issue of the Bulletin.)

2. COMBINING JUDGES' DUTIES

It is emphasized that this combining of judges' duties does not eliminate our Exhibition Judges! On the contrary, it increases their responsibilities to include judging in the gardens, and permits their participation in voting on major AIS awards—privileges not heretofore enjoyed. The only requirement is that they complete the minimum training in the gardens. A further advantage offered to Exhibition Judges at the effective date of the change-

NEVA SEXTON'S IRIS GARDEN

1709 Third Street, Wasco, California 93280

Home of PACIFIC PANORAMA—1965 Dykes Medal Winner

GOLDEN SENSATION (Neva Sexton '67)

(MOON RIVER x RAINBOW GOLD) M. 34". Wide petaled and ruffled deep yellow self with heavy substance. Standards are closed and falls are semi-flaring. Well-branched stalks with many blooms. This is my yellow seedling that did so well in the Presby Gardens in 1966. Seedling 60-56. Received 18 HC votes in 1966. \$25.00

MOONLIGHT AND ROSES (Neva Sexton '67)

(NEW FRONTIER x MARY RANDALL x TECHNY CHIMES) M. 36". Very large, broad petaled, ruffled yellow. There is a coral flush at the base of the standards. A luscious beard of glowing coral gives the flowers an added brilliance not found in yellow iris. Closed standards and semiflaring falls. Well-branched stalks with many blooms. \$25.00

HEAVEN'S OWN (Neva Sexton '66)

(SKY CRYSTAL x BLUE THROAT x REHOBETH x No. 7) M. 36". Very blue sky blue self. Dark blue beard and throat. The blooms are lightly ruffled, large and semi-flaring. Substance and branching are good. \$20.00

BEAUTY SECRET (Neva Sexton '66)

(TOP FLIGHT x TECHNY CHIMES x pink sdlg. E. 36". Bright apricot self with large flowers of heavy substance. Closed standards with flaring falls; wide petals. Well-branched. NET \$25.00

HIDDEN MAGIC (Neva Sexton '66)

(SMALL TALK x EMMA COOK) E. 36". The orchid standards are domed and lightly ruffled. Falls wide, ruffled and flaring; a rich purple. Good substance and well-branched. HC '65. NET \$25.00

FIRST SNOW (Neva Sexton '66)

(VIOLET HARMONY x SWAN BALLET x CELESTIAL SNOW) M. 36". Beautiful white self with wide, heavily ruffled and fluted flowers of heavy substance. Well-branched stalks. NET \$25.00

COUNTY DOWN (Neva Sexton '65)

(CREAM CREST x MOON RIVER) ML. 36". A rich cream self. Large flowers of heavy substance. HM '66 \$15.00

ARTIST'S DREAM (Neva Sexton '65)

(LAKE ISABELLA x HAPPY DEB x ROCOCO) M. 36". White standards bordered orchid-violet. Throat, haft and stylearms darker violet. Falls are white. Wide white beard. \$15.00

MOON RIVER (Neva Sexton '63)

(MIXED EMOTIONS x LIMELIGHT) M. 36". Antique gold self. HC '62. HM '64 AM '66 \$10.00

SMALL TALK (Neva Sexton '63)

(PINAFORE LASS x CAROLINE JANE) M. 30". White and orchid plicata. HM '65 \$6.00

RUTH'S LOVE (Neva Sexton '62)

(STARSHINE x yellow sdlg. EE. 40". Yellow and white \$4.00

PINK N' PRETTY (Neva Sexton '62)

(NOMOHR x PARTY DRESS x PINK CAMEO x PARTY DRESS) M. 36". Peach-pink self. HM '65 \$4.00

NEW FRONTIER (Neva Sexton '62)

(BROTHER CHARLES Sdlg. x CHANTILLY x LIMELIGHT x JUNE'S SISTER) M. 40". Light pink with a darker beard. HM '62 \$5.00

PACIFIC PANORAMA (Neva Sexton '60)

(SWAN BALLET x SOUTH PACIFIC) ML. 40". A deep sea blue with white beard. HC '60. HM '61. AM '63. Runnerup for Dykes Medal '64. Winner of Dykes Medal '65! \$7.50

ORDER DIRECTLY FROM THIS LIST. RHIZOMES WILL BE TRUE TO NAME AND DISEASE FREE. GIFT IRIS WITH EACH ORDER.

CALIFORNIA CUSTOMERS PLEASE ADD 4% SALES TAX.

PRICE LIST OF OTHER IRISES ON REQUEST.

over: Those who for any reason choose not to assume the rights and privileges of the new, full-fledged AIS Judges (i.e., they choose to remain as they are) will be allowed to do so. They will, however, be counted as a part of their overall regional quota. Some regions have an established policy of having no Exhibition Judges, as such, on their rolls. Obviously, if such be the case at November 1, 1968, those regions will not have this problem.

A regional quota for AIS Judges will not exceed 15% of the number of AIS members in the region. It is expected, however, that the actual number of judges will be substantially less, at any given time, than the maximum quota. The wise RVP should manage always to have vacancies, so that candidates for judgeships who qualify outstandingly under the training requirements can be ushered in as enthusiastic new judges without undue delay. In this way, the quality of the region's leadership will be continually strengthened. It is suggested that RVP's plan their 1968 judges' list with the new requirements in mind, and avoid overloading their quotas at the inception of the new program.

3. THE GUIDELINES FOR TRAINING JUDGES

a. *Paragraph 1—Introduction*

It is emphasized that these GUIDELINES are a framework within which each RVP is expected to implement an official training program, tailored to meet the needs and wishes of the region. Regions 4, 17, and 24 have made considerable progress, of which I have personal knowledge, in drawing up a specific program and in "selling" it to their members. I am sure there are many other regions who are also well along in their plans, the details of which I do not happen to know at this time. We feel that the GUIDELINES are practical and reasonable. We believe that long before the effective date, every region will have solved its problems and will have adequately implemented them. Let me emphasize that the Board will assist in this implementation in every way reasonable and possible. Obviously, there are some responsibilities that can be assumed at regional level only. For example, the RVP, or a committee appointed by him, can best point out unsatisfactory performance of a judge, because the details of his activities are known locally (except that failure by a judge to vote a timely ballot for two consecutive years is, by AIS rules, unsatisfactory performance.) The fact that the *AIS Handbook for Judges and Exhibitions, 1965*, will provide the primary base for the training programs should simplify their formulation and go far to insure uniformity.

b. *Paragraph 2—Requirements To Become Member of Reserve Pool*

(1) The five-hour sessions are intended to be held on two days, at least six months apart but not more than a year apart. The five hours should include a mid-morning break and another at mid-afternoon. The lunch hour, however, should be excluded from the five hours. A typical session could be scheduled, as follows:

MORNING

- | | |
|---------------|-----------------------------|
| 8:00 – 9:00 | Registration |
| 9:00 – 10:15 | First Instructional Period |
| 10:15 – 10:30 | Break |
| 10:30 – 12:00 | Second Instructional Period |
| 12:00 – 1:00 | Lunch |

1967 INTRODUCTIONS from:

MELROSE GARDENS

SANFORD BABSON, breeder of fabulous irises! Such as: GOODNESS, COMMENTARY CREDO, EPIC and CAMBODIA, and this year is no exception—

AD ASTRA (Babson '67). Yellow sdlg. X MELODRAMA. Spacious yellow with white falls.NET \$30.00

CONFECTION (Babson '67). A COMMENTARY seedling in exotic bluish lilac.NET \$25.00

COLLIE AND LILLIAN TERRELL, Creators of RETA FRY and FORMAL FASHION, two magnificent irises, add another—

FINAL TOUCH (Terrell '67). Deep, full color orchid bitone with enamel finish.NET \$25.00

REX AND JONNYE RICH, specialists in arilbreds and beardless irises vary their list of introductions this year with—

DARK EYES (Rich '67). Arilbred, half onco, dream effect, big black signal.NET \$15.00

LIGHTS OF PARIS (Rich '67). Siberian iris. White, bright yellow hafts.NET \$10.00

ENCHANTING MELODY (Rich '67). Japanese iris. Mallow-pink double.NET \$15.00

PATSY JOE (Lucille Kavan '67). Miniature dwarf. 9" orchid-purple with spot.NET \$5.00

REGARDS (Ben R. Hagar '67). Standard dwarf. Different; with ideal form. Smoky orchid and maroon-red; purple beard.NET \$10.00

SUSPENSE (Hager '67). Spuria iris. *I. carthaliniae* seedling in purple.NET \$10.00

BELISE (Dr. Marc Simonet '67). Species cross. Very attractive garden or arranger's spuria iris.NET \$10.00

ALSO FOUR DAYLILY INTRODUCTIONS FOR 1967

COMPLETE DESCRIPTIONS of these introductions plus SELECTED TB, MEDIAN, DWARF, ARILBRED, REBLOOMING, and NOVELTY irises at SALE DISCOUNT prices. FEATURING: SPURIA, LOUISIANA, SIBERIAN, and JAPANESE IRIS and DAYLILIES.

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STOCKTON, CALIF. 95205

AFTERNOON

1:00 – 2:00 Third Instructional Period

2:00 – 2:15 Break

2:15 – 3:15 Fourth Instructional Period

(2) The practice judging will, of course, be a part of at least one of the five-hour sessions. Region 24, for example, plans to devote most of the second five-hour session to participation by the attendees in actual judging situations. (That region and Region 4 require three five-hour sessions instead of the mandatory two.) Obviously, the practice judging portion of the training program will have to be scheduled during bloom season.

(3) The written examination adds dignity to the training situation and assures that the RVP can tell objectively which candidates have, in fact, demonstrated their knowledge. Score sheets for the practice judging will serve the same purpose in that area.

(4) Competent instructors are already present in many regions. If the *Handbook 1965*, is followed in drawing up the "esson Plans," instruction will almost certainly be uniform. Of course, some instructors are better able to "put their ideas across" to an audience than are others. But thorough preparation of the subject matter and a little practice on its presentation will go far in assuring effectiveness. The Board encourages interesting and original presentations, especially in visual aids. Some of the RVPs are talking of sponsoring a "finishing school" for instructors within their own areas, and the idea does seem to have merit.

c. Paragraph 4—Accreditation

The training required to progress from apprenticeship to accreditation is, in my opinion, a very important part of the program. Here, the candidate for judgeship is putting into practice what he has learned, while a wise and experienced judge explains the mistakes made and commends the acceptable work performed. Here is the ideal place for the apprentice to be impressed with the fact that a seedling may possess all the acceptable characteristics and still not be recommended for introduction, because of being no better than similar ones already introduced. A balanced training is called for, in that apprentice judging must be performed both in the garden and on the show bench. The fact that the accredited judge under whose tutelage the apprentice has worked will make a written report on the apprentice's potentialities, insures sound evidence on the question: How good a judge can the candidate become? And, as an incentive for the accredited judge to make the report willingly, this will also afford him a credit for active participation in the program.

d. Paragraph 5—Participation by Accredited Judges

The requirements here are so mild that few will complain, I believe. If an accredited judge is willing to participate in any way in the Judges' Training Program of his region, he will have no trouble in getting full credit for continued accreditation. If he is not willing to participate in any way, he is not interested in his duties and responsibilities as a judge, and should resign of his own volition.

e. General

It must be obvious by now that considerable latitude is available to the regions, while still staying within the minimum requirements. It is suggested that the total of 10 hours of instruction before apprenticeship

*Iris from the Gardens
of*

JAMES E. and SEARCY S. MARSH

SKY HARBOR (Marsh 1967) M. 36". Seedling 65-38. GALILEE seedling 61-30 X ELLEN MANOR.

Our new giant offering has very wide flowers of excellent form and substance. SKY HARBOR has closed standards and semi-flaring falls that are nicely ruffled. This is a beautiful true Spectrum Blue (Wilson 45/3) self that does not fade, with lighter area just below beard. The flower is very clean with no veining and no haft markings. Branching is exceptionally good with nine big flowers to a stalk. The large plant is rugged and a good increaser with healthy blue-green foliage. Like our DISTANT HILLS and ORCHID DANCER, SKY HARBOR will bloom on its largest increase after the main rhizomes have finished blooming. This is a unique feature which provides for a very long season of bloom. SKY HARBOR produced the very last blooms of the 1966 season and performed one hundred percent when many named varieties and seedlings due to a late freeze did not bloom at all. Fertile both ways. \$25.00 each; \$45.00 for two; three or more \$20.00 each.

Our 1966 introductions, ORCHID DANCER, BRIGHT MOON and ORANGE TRIUMPH (descriptions in our ad in the April and July 1966 Bulletins) will be \$20.00 each; any two \$35.00; three or more rhizomes—any combination—\$15.00 each.

Our 1965 introductions—DISTANT HILLS, HARMONY HOUSE and PIRATE TREASURE (descriptions in our ad in the April 1965 Bulletin) will be \$15.00 each; any two \$25.00 and any three or more rhizomes—any combination—\$10.00 each.

Our 1964 introduction, PRAIRIE BLAZE, will be \$10.00 net.

We give no discounts other than the deductions for quantity stated above. There will be no extras. We have no catalog or list and no other irises for sale. We will replace any losses through any causes as a courtesy to our customers, as long as we have available stock.

We wish to thank our many customers for their fine patronage in the past.

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be offered in only two sessions, but this is not mandatory. If more sessions are desired to come up to that total, they may be utilized. If the practice judging is considered to be more desirable as a method of instruction, the minimum requirement can be expanded considerably. If added requirements, such as the growing of a certain number of irises, mandatory participation in shows, or others are deemed advisable by a region, they may be added in the regional program.

f. *Conclusion*

I believe the level of iris knowledge and appreciation throughout AIS will be noticeably advanced by this program. The impact on the quality of judging in AIS will, in my opinion, be profoundly favorable. I encourage every RVP, every judge, every member to get solidly behind this worthy program! In five years, we will be mighty glad that we did!

At the Species Level

B. LEROY DAVIDSON

It will be the aim of this column in your quarterly BULLETIN to inspire interest in the lesser known sorts of irises as well as to keep the membership abreast of what the Species Study Group is doing. The first thing is to explain the why, wherefore and whither. At the meeting of the Board of Directors in Denver last November, a proposal was presented and accepted, establishing the Species Iris Study Group as an actuality; a facsimile of this proposal is herewith presented to the entire membership.

The need for such an organization grew directly from the active minds of members of robins in the Species and Natives Division, simply because the field of possible study was too enormous to be encompassed within the scope of the individual robins. Thus, the Study Group will be the coordinating factor between robins and will have the further expanded functions of circulating certain library materials in a way that will enable the members to keep a loose-leaf file for handy reference. This material will not be original, but will consist of extracts and direct quotations from the literature of the iris, both botanical and horticultural.

From the way the proposal to organize is worded, it is readily understandable that all AIS members automatically become members of the Study Group and that participation will be a matter of choice. It is not necessary to become a robin member to participate. The library material will be made available at regular intervals, and at such times their availability will be announced in the BULLETIN. An annual newsletter will also be issued. These will be nominally priced, for although the Board of Directors has agreed to underwrite the expense, it is planned that the library function will become self-sustaining. Mr. Thomas J. Buckley of Chicago will serve in the capacity of "librarian," and Mr. Bruce Richardson of Hannon, Ontario, will serve as "editor of publications."

By far the most exciting of the functions of the new Study Group is expected to be the seed exchange. At the present time this is not completely organized, but will be thoroughly functional by the coming seed season of



IMPACT



HONESTY

OUR 1967 INTRODUCTIONS

CRYSTAL BLAZE (Nate Rudolph) M. 34 in.

Sdlg. 63-31 (Inv. ARCTIC FLAME sib, FLEETA, MAY HALL, PINK CAMEO, NEW HORIZON, NATIVE DANCER, etc.) A marked improvement in the red-bearded white class having no peer. H.C. '65.

PINK FRINGE (Nate Rudolph) ML. 34 in.

Sdlg. 63-60 (Inv. PINK ICE, FLEETA, MAY HALL, PINK CAMEO, NEW HORIZON, etc.) Show-type stems bear heavily laced blossoms featuring a new shade of blue-pink with a deeper beard. H.C. '66.

IMPACT (Louis Kamps) M. 30 in.

Sdlg. 63-27 (ARCTIC SKIES X ARCTIC FLAME sib.) Exquisite, warm white with a yellow-tipped, white beard. Stock limited.

MEDORA (C. & K. Smith) ML. 35 in.

Sdlg. 64-21 (WISDOM X SARAH AVERELL) Cool light yellow standards and frosty white falls with a yellow picotee edge. H.C. '65.

TIDESONG (C. & K. Smith) ML. 40 in.

Sdlg. 64-33 (IMPERIAL WOMAN X ALLEGIANCE) A different shade of blue comparable to that of grape hyacinths highlighted by a blue beard.

HONESTY (S. Moldovan) ML. 29 in.

Sdlg. 64-91 (SALEM X (CELESTIAL BLUE x GALILEE)) This nearest to light spectrum blue is produced on stems with five branches plus terminal.

All are priced Net \$25.00 each. You may order from this ad or request our catalog which contains full descriptions and photos of these plus new hemerocallis introductions.

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autumn 1967. There will be an elaboration of this in a further column. Hopefully this will become—as is the seed exchange of the British Iris Society—a source of much garden pleasure to many members. There are no plans to handle seed of the bearded garden hybrids, though certain of the other highly developed garden groups of irises, such as the Japanese (*Kaempferi*), Louisiana (*Hexagonae*) and Siberians, well-known and well-developed from a horticultural standpoint, may be so highly developed that there may well be no appeal in growing the wildlings from which they derived. If there is demand—and supply—then all these will be handled. The autumn BULLETIN will carry the notice that the seed list is available to all who would like to have it, and will be sent upon receipt of a self-addressed envelope. The month of November will constitute the period seed is sent out. The amount of seed per packet will depend directly on supply and demand. Naturally, a rarity for which there is a big demand will be in short supply, and the amount of seed per packet will reflect this. Conversely, those in good supply will be supplied in generous amounts.

All Sections of AIS are expected to find merit in the formation of the AIS Species Study Group. There is no intent to detract in any way from their many valued functions; whereas much of the special interest within those groups is in the improvement of garden forms by hybridization, such will not be true of the Study Group; improvements through selection of superior forms will quite suffice. The study of interspecies hybrids will be a serious part of the program in that it will aid in the understanding of the criteria which are important in separating one species from its nearest kin.

Thus, it might be summarized that the Study Group is offering the tools in the form of seed and information to those who wish to know and grow the irises of Mother Nature. Inevitably the question: "What is a Species?" will arise, and it will be one of the important facets of the facility, enabling one to determine whether the plants one has grown from seed ARE really what the packet SAID they would be. In scope this study material could logically include most anything about irises except varietal comments on the new introductions and meritorious seedlings viewed during the bearded season just passed. All this is well covered in many and varied publications, from dealer's catalogs, society publications and gardening periodicals. The Species Iris Study Group gives to the adventurous gardener, newcomer or old-timer, the opportunity to know and grow some of the most exquisite of Mother Nature's wildflowers, for who can doubt that the unspoiled woodland or roadside irises are among the most lovely of them all.

TO THE OFFICERS AND BOARD OF THE AMERICAN IRIS SOCIETY,

A proposal for an organization devoted to the study and culture of IRIS species, within the structure of the American Iris Society:

Proposed Name

The name "SPECIES IRIS STUDY GROUP" is suggested as best expressing our conception, interest and intentions.

Purpose of Organization

The purpose of the SPECIES IRIS STUDY GROUP would be of educational orientation, to be accomplished through, 1.) study of the botanical

and horticultural aspects of Iris species, 2.) a library function for circulating educational materials, and 3.) the establishment of a seed exchange.

The study and library functions would be elaborations of the similar functions existing within robins of the Species and Natives Division of the AIS Robin Committee. Expansion of the Division's scope is necessitated by a desire and willingness to establish the third-listed function as a facility belonging to all AIS members rather than to the few within each robin-group.

Proposed Method of Organization

It is suggested that the nature of our interest should allow function of the SPECIES IRIS STUDY GROUP within the Scientific Committee and without placing undue additional burden on that committee. We are fully expectant of organizing and expanding our stated functions within the limits outlined by the AIS Board of Directors.

Proposed Method of Financing

It is realized that there will be expenses to both the library function and the seed exchange; the study function of robins is now self-sustained. While it is to be hoped that each of the two will in time become self-supporting, through subscription and the sale of seeds, their overall benefit to the society and its membership is evident.

A sustaining fund to be subscribed annually from the treasury or from the Scientific Fund would be of considerable importance in the establishing of these two important functions in the most desirable and beneficial manner. Moneys realized from subscriptions to library materials and sales of seeds should eventually make these functions self-sustaining, and more fully comprehensive.

* * *

We ask official sanction to organize within the American Iris Society rather than as a Section of it, not only to simplify details of organization, but in order that our purposes in no way will conflict with those of the Society, and rather will increase and compliment those purposes.

SPECIES STUDY GROUP MOVES FORWARD

The Species Study Group now includes Betty Rowe as secretary-treasurer, Tom Buckley as librarian, Bruce Richardson as editor-of-publications and Ruth Hardy as seed exchange director.

A fuller announcement of the seed exchange function will be ready for July publication, including a discussion on collecting, cleaning and labeling. The seed exchange will depend on contributions from members for the supply, and on sales at a very nominal price to benefit the Society.

The first issue from the librarian should be available by July and will be sent to subscribers. The details of subscription also will be announced in July. Number One of the Species Newsletter also should be available at the same time.

CONVENTION DATES (tentative)

- | | |
|------|----------------|
| 1972 | Salem-Portland |
| 1973 | Philadelphia |
| 1974 | Cleveland |

Quality Rebloomers

Tall Bearded 1967 Introductions of R. G. SMITH

CLOUD DUET. Beautifully ruffled almost snow white plicata with a brilliant sheen. Very light suffusion of pale purple overall. Pictured in January '66 Bulletin p. 64. HC '66.

PINK DUET. Flamingo pink self with heavy substance, wide parts and fine form. Slightly ruffled. HC '66.

FALL MAJESTY. Pale pink sibling of PINK DUET but with heavier ruffling and a distinctive charm. Unsurpassed among my rebloomers and the best I have seen. HC '66.

Each of the above at \$30; any two for \$50; stock limited.

GOLD DOUBLET. Heavily substanced, ruffled yellow with smoothly applied suffusion of honey orange. High-branched. The best individual flower I have found in rebloomers.

AUTUMN CHAMELEON. A sibling of CLOUD DUET with even greater width of parts which came close to being a fancy amoena. Standards light egg shell tan; falls brushed red-purple. Nicely ruffled overall. Striking and unusual.

YELLOW DUET. A fine, well-branched, clean tailored vivid yellow that makes a show piece in the garden.

\$20 each; all three for \$50; stock limited.

Tall Bearded 1966 Introductions

PURPLE DUET. A majestic flaring heavily substanced solid purple.

RED DUET. Mahogany red self with striking beard. BLACK DUET. The darkest red-black rebloomer I have seen. WHITE DUET. Floriferous brilliant white.

\$12.50 each; all four for \$40.00

Coming Attractions: A fine tall flaring ruffled blue-black; a charming white with brilliant orange beard; a stunning rose with tangerine beard; a majestic lavender-blue; two outstanding plicatas; And all with picture-book branching.

Contact Earl Roberts for the reblooming borders BORDER DUETTE, ROSE DUETTE, and FALL FESTIVAL, the latter really a short TB. Contact Lloyd Zurbrigg for LOVELY AGAIN, REPLICATA, RETURN ENGAGEMENT and DOUBLE MAJESTY.

Please note address change. My entire field must be moved to my new address before August 1; consequently no orders can be accepted after that date. No guests, discounts, trades, or extras and nothing else for sale. All rebloomers have repeated here for many seasons. Write to: RAYMOND G. SMITH, 3821 Sugar Lane, Bloomington, Indiana 47401.

What Makes a Remontant Iris Rebloom?

ROBERT PAUL HUBLEY

Foreword: The remontant iris plant (that is, the same rhizome and its bloomstalk) which blooms in April does *not* bloom again in September! To simplify the explanation of a complicated process, the remontant rhizome which blooms in April later produces a second offshoot in the same year—a new rhizome and its bloomstalk—which, in turn, blooms in September.

Regular Iris Growth Cycle: Each rhizome produces a bloomstalk only once; and then passes the task of producing flowers on to one or more of the new rhizomes it has put out, with the old rhizome functioning as a food reservoir.

After blooming, and the flowers have faded, iris plants usually rest. When the plants emerge from this resting stage, the rhizomes put out new rhizome buds, and new roots begin to form. Ideally, the number of bloom-stalk-producing rhizomes should double each blooming period, branching out from the old leaf axils on each side of the rhizome.

With spring blooming irises, the new flower buds for the following spring are formed the previous summer or early fall at the base of the fans from which bloom stalks are to develop.

Remontant Iris Growth Cycle: Remontant irises, on the other hand, produce two sets of buds for bloom at two different seasons in the same year. For example, fall flowering buds are formed after the spring bloom; and spring flowering buds are formed after the previous fall bloom. It must be remembered, however, for an iris to bloom more than once in a year, it must have both the correct hereditary characteristics and the right environment.

Watering Remontant Irises: Remontant irises will be encouraged to rebloom if watered from March through September (or until the start of the rainy season in Southern California). This continuous watering program is necessary so summer rebloomers and autumn rebloomers will have full opportunity to respond with the reblooming that is in their genetic makeup.

While summer watering will not make regular spring bloomers into rebloomers, you may be surprised with an additional summer or fall bloom-stalk. On the other hand, you can delay the summer or fall reblooming season, if you so desire, by not watering for a month or so. Also, in many cases, if you treat a remontant like a regular spring bloomer, it will act like a regular spring bloomer and not rebloom.

Fertilizing Remontant Irises: In Southern California, after a remontant iris has finished blooming, I cut off the stalks, pull off dead leaves and trim any brown leaf ends. I then apply a handful of complete organic fertilizer around the plant. Already new rhizomes and new fans are developing, and these need to be built up for the next blooming season. In other parts of the United States, however, you may not want to fertilize in the fall, and thus encourage soft new growth just before the winter cold.

Dividing Remontant Irises: Remontant irises need to be divided about every two years, keeping in mind that crowded plants do not rebloom as well. In most parts of the United States, plants are dug and divided in July and August in order that the plants will be fully established before cold winter weather sets in.

This general dividing time also applies to remontants and to Southern California, with the following modifications: (a) Summer rebloomers should not be divided until after completion of summer rebloom; (b) Fall and winter rebloomers should be divided earlier, as soon as possible after the spring bloom; and (c) when the young new rhizomes are large enough to be cut or broken off and replanted.

Summary: In short, remontant irises rebloom because they put out consecutive sets of flower buds at different seasons of the year instead of just one set per year. Expanding this definition to the ultimate, an "everbloomer" would be putting out flower buds continuously, which, if the plant had such hereditary characteristics and the right environment, would be blooming continuously, year around.

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Beautiful yellow, blue-violet bicolor. Standards barium-yellow to amber at center; falls pale blue-violet. Selected as the best from hundreds of seedlings in this line of breeding. A strong grower, and good seed parent. Midseason. 38".	
AZURE DOME (Sdlg. 3764)	\$25.00
An iris of striking color contrast. Standards wisteria-violet, deepening to soft bluish at center; falls pallid blue-violet, changing to white. Olive haft. Has the excellent branching of imbricata hybrids. Midseason. 38". Stock limited.	
RADIANT DAWN (Sdlg. 6063)	\$25.00
An iris of pleasing color combination that has attracted every one. Standards pale clear yellow; falls a glowing phlox-pink. Flowers medium large, moderately ruffled. Fine in every way. 36". HC 1966.	
RING BEARER (Sdlg. P. 46) MTB	\$5.00
A dainty flower, with nice form. A self color between La France pink and Seashell pink. Beards pale tangerine. A vigorous grower. Early. 12".	

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1966 INTRODUCTIONS

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HELEN TRIGG (Zurbrigg). M & RE. 37". An early fall remontant in full-size pale tangerine-orange.	\$20.00
LOVELY AGAIN (R. Smith). E & RE. 36". A most sensational full-size summer rebloomer. Bright lavender. Tremendous parent.	\$35.00
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1965 INTRODUCTIONS

BEATRICE JOYNT (Zurbrigg). M. 36". Medium true blue self.	\$15.00
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RETURN ENGAGEMENT (R. Smith). M & RE. 34". Another fancy plicata of excellent form. Great potential for remontants. Cinnamon-rose color.	\$15.00

FORMER REMONTANT INTRODUCTIONS

KERRY PIPER (Zurbrigg). EE. 8". Miniature dwarf; violet color.
ONCE MOHR (Zurbrigg). E. 18". Early summer oncobred intermediate. Orchid with onco veining and signal in purple.
CHIMERA (Zurbrigg). IB. 20". Early fall rebloomer; intermediate amoena of unusual coloring.
NORTHERN SPY (Zurbrigg). EE. 36". Early fall, tall rebloomer.

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A Family Problem

ROBERT E. JERRELL

When Winter settles in, it is a time to console oneself with catalogs and with plans for the crosses that will be made during the coming season. Yet Section 2 of the January, 1966 Bulletin of the American Iris Society, entitled *Registrations and Introductions in 1965*, which is the most recent of the keys in planning, presents not only another in a continuing series of invaluable assets to the iris breeder but also the basis for a potentially serious and frustrating problem. The following remarks are not intended to reflect on the compilers, who are deserving of more credit than they will be publicly accorded. The problem, on the contrary, centers on a direct responsibility of the iris breeder, and it is to him on behalf of his own interest and that of those who will follow that this appeal is addressed.

Among the several reasons for maintaining a registry, perhaps paramount for the breeder's purposes, are the parentages involved. Quite clearly there is at best a varying degree of certainty associated with recorded iris crosses. Few breeders, in my experience, make an effort to emasculate the flower chosen for the seed parent. Equally few attempt preclude possible random fertilization by insects through the use of bags or other means. More usually, and to the extent of being the rule, a cross is simply made and the flower appropriately tagged. In iris this procedure is followed with considerable justification, since open-pollination, while it does occur, is much less frequent than in many other garden plants. Still we must allow the possibility of uncertainty even at this early stage. Subsequent to the cross are such inevitable hazards as tags being estranged from seed pods, planting and transplanting records being confused, and so on. We nonetheless, and quite rightly, do rely on the scrupulousness of the breeder in accurately maintaining the history of his lines.

It would be inappropriate to do more than note the importance of parentages to the breeder. They are the sole indication, other than the flower itself, of the genetic material presented. Both experience and the abundant literature on plant breeding testify to the limitations of crossing one pretty flower with another. This, coupled with the inherent uncertainties noted above, argues strongly in behalf of keeping the registry as complete and informative as possible.

Yet what do we find? Knowing full well from the Check Lists of 1949 and 1959 that the annually published registrations will provide the basis for the Check Lists of the future, we nonetheless permit the entry of cultivars in a way more frustrating than if cited as frankly unknown. The reference here is specifically to the kind of entry that appears on the surface to be complete and informative, but that cannot withstand even the slightest probe. Take as an example the very first entry in *The 1965 Registrations and Introductions*:

AALEN SUNRISE (Resch, R. 1965). TB, M, Y40 cm. S. bright yellow; F yellow with overlay of brown in center, leaving half inch of yellow on edges. Staten Island sdlg. × Whole Cloth. Spinkston 1965.

What is the STATEN ISLAND seedling? The point must be abundantly clear. Presumably STATEN ISLAND was the pod parent of the seedling, though even that is not certain from what is given. Was the seedling open-pollinated, or was it known to the breeder? If it was known, it should certainly have been given. If it was not, the entry should at least have been explicit, in which case the parentage should have been stated as (STATEN ISLAND x unknown) × WHOLE CLOTH. The way this entry is presented makes one-fourth of the parentage absolutely useless to future breeders.

The above entry was cited not because it was unique but simply because it was the first. More straightforwardly, it would seem, is the second entry, "ADELE ADAMS (Beam, R. 1965) . . . Parentage unknown." Here the breeder is given no information, and he knows it. By contrast, defective entries appear in a number of ways and with distressing frequency. One of the most dramatic examples is "APRIL MELODY (Gibson, R. 1965) . . . 75-9PF × 66-9PF." Here we have testimony to the fact that a distinguished breeder of plicatas, one whose contribution to future development could be of prime significance, has an ingenious and perplexing system of numbering his seedlings. *And absolutely nothing more!* This is a particularly disturbing instance, since here the details of the lineage are almost certainly known. It is somewhat interesting to speculate on whether Mr. Gibson found the pedigree so involved that he encountered problems transcribing it or simply wished to withhold the information either for private reasons or because he thought it would not be of interest. It is of interest to the serious student; yet its absence precludes use of this plant in a breeding program on anything other than a chance basis.

Let me return for a moment to the matter of difficulty involved in transcribing complicated lines. In discussing this point with other breeders, I have regularly heard it said that material under number could go back for 20 or more years and that it would be impossible to transcribe. Clearly, this is false. If it is known, it can be written. There may surely be practical limitations in terms of space, though I seriously doubt that the number of times when this would occur would create a major obstacle. In fact, such complicated pedigrees are just the kind of information that is most instructive. It not only tells the plant material behind the variety, but also the ways this material has been handled by the breeder.

There is no need to amplify the fact that this problem is rampant throughout the issue. Entries for AUTUMN CHAMELEON, BLISS, BLUE EARTH, BLUETONE, BOLD HEIRESS, BORDER ROSE, BRIGHT MOON, BRIGHT 'N FAIR, BROWN TEMPEST all exemplify the frequency of the trouble. One could go on through the bulletin with such lists. In every case the data are meaningless to the extent they are defective.

As I mentioned at the outset, the compilers could at most do no more than accurately transcribe what they receive. For the moment the responsibility rests clearly with the breeder to provide the details that form the links from the past to the future of iris achievement. I do strongly urge, however, that serious consideration be given to making a positive statement of ancestry, either one way or the other, a prerequisite to registration. If it is unknown, it should be so noted. If it is known, it should ideally be included when first published, or failing this I might suggest that breeders be

required to place complicated ancestry on file with the Recorders so that those who follow will at least have access to the data. The presiding argument favoring this viewpoint should be our sense of responsibility toward those irisarians of the future who will take from the legacy we leave the pleasures and satisfaction that growing and breeding irises so abundantly provide.

A Hybridizer's Views

MAYNARD KNOPF

When I decided to enter the field of breeding irises I felt that the first thing to do was to form a plan. When I asked myself the question, "What are the most important goals to work toward?" I reasoned that they should be 1. substance, 2. personality and 3. growing habits. I believe that these three, along with the ramifications of each, cover my entire aim in the breeding of irises.

It has been said that what the mind can conceive is within the realm of achievement. This theory seems to work out very well in practice.

Let us now develop the theme of substance. INCA CHIEF × SPANISH PEAKS produced MISSION TRAILS plus several seedlings with very heavy substance, good growing habits and strong well-branched stalks. In outcrossing, selfing and sib crossing, I found that MISSION TRAILS and its sibs had the ability to carry their substance to their offspring. Also, I could go in any direction I desired. To illustrate, a sib to MISSION TRAILS × GLITTERING AMBER produced DENVER MINT, a good clear yellow. Then MISSION TRAILS × WHITE BOUQUET gave us BEAUTY QUEEN, a pure white. As I have proceeded with this line of breeding, each generation seems to pick up more substance.

At this point I wanted even more *personality*. This raised the problem of how to get more intense ruffling, brighter color, newer design and more resistance to fading. I figured that introducing lace factors might just do the trick, so I used pollen from QUEEN'S LACE extensively; and to my joy, instead of lace, I got that deep ruffling I so desired.

Another approach was to use onco blood. This has given surprising results, especially in the setting of color and in bringing new coloring into being.

Now the third point was growing habits. I believe this all important and self-explanatory. No matter how pretty a flower may be, if it will not grow satisfactorily, it surely must be useless.

It must be remembered that in order to improve our irises, we must be very particular in the selection of breeding stock, using only the finest we can select. Also, I feel that we must remember that no matter how good a flower seems to be, it can be better. We must dream of new things and new color combinations; and then work hard to accomplish these dreams.

I would like to close by trying to encourage anyone in the early part of his hybridizing career to envision what he wants to accomplish. Be very selective in the irises you keep to work with. Don't become discouraged, if the results are not coming as fast as expected.

This hybridizing is a wonderful life. Live it to the utmost.

1967 Introduction

MASCARA

((GULF STREAM x (VATICAN PURPLE x COOK #11348)) x STORM WARNING)) x ((BLACK HILLS x ((BLACK HILLS x (VATICAN PURPLE x COOK #11348))) Large, smooth, deep violet-blue self with purple-tipped beard. Blooms are moderately ruffled and wide. Stalks are sturdy and adequately branched. M. 36"; HC '64 Net \$25.00

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FLAPPERETTE—Melon-pink stds; falls white, bordered melon-pink \$15.00
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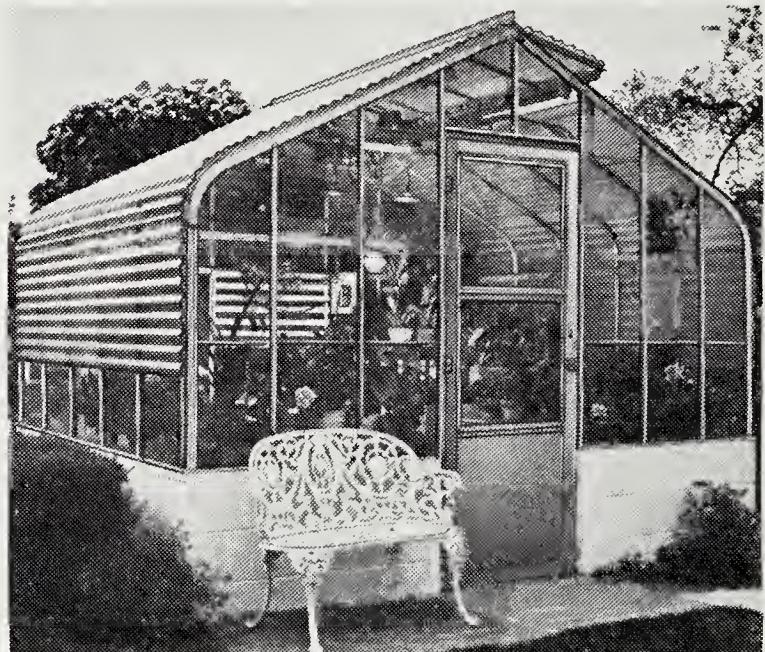
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BLUE NOTE (((TRANQUILITY x WHITE BOUQUET) x ((SNOW BALLET x BLUE ENSIGN) x BLUE THROAT))) Beautifully formed, shimmering blue-white flower accented by a thick blue beard. A ruffled, heavily substance self, wide or parts, with arched standards and semi-flaring falls. Good, well-branched stalks. A welcome addition to the small class of whites with blue beards. Beards really add zest to an iris.

Midseason. 35". HC 1964.

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GOLDEN SNOW, white and gold	\$22.50
WINTER PAGEANT, ruffled white	\$22.50

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RT. 1, BOX 296, WEIDMANN ROAD, MANCHESTER, MISSOURI 63011

INTRODUCTIONS FOR 1967

JANICE RUTH. Sdlg. 63-66. TB. 34". M. Deep lavender self. Domed standards; flaring lacy falls. Strong stalks; branching, substance and bud count are good. **AMETHYST FLAME X ORCHID JEWEL.** RTG Award 1966. \$25.00

LILA CAROL. Sdlg. 64-1. TB. 34". Large rose-pink self. Closed standards; flaring ruffled falls. Substance, stalks and branching are excellent. Bud count of 7. **LILAC BOUQUET X PRETTY CAROL.** HC 1966. \$25.00

DEBRA JEAN. Introduced 1966. TB. 34". M. **AMETHYST FLAME X Mission 51-33.** Lavender with an overlay of silver. Lacy and ruffled. Closed standards. Substance, branching and growth are excellent. HC 1965. Sdlg. 63-65. \$20.00

JUNA KAY. TB. 34". **WHOLE CLOTH X HELEN McCAGHEY.** Lovely dark blue, Closed standards; wide flaring falls. Four-way branching with a high bud count. Strong stalks. Substance very good. HC 1965. \$20.00

LEORA KATE. Introduced 1963. M. 34". Chartreuse-yellow. Fluted flaring falls. Well-branched. Will rebloom. HM 1965. Judge's Choice 1966. \$10.00

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BUCKLES IRIS GARDEN

535 KATHLEEN • SIKESTON, MO. 63801

About Regional Test Gardens

DR. J. R. DURRANCE

Attention: All RVPs and Accredited Garden Judges.

Regional Test Gardens cover the iris growing areas of all North America, from coast to coast. There are one or more RTGs in almost all AIS regions with the exception of only two. It is planned to establish RTGs in these areas in the near future, so that participation will then be one hundred percent.

This is the year of the RTG Award. (Regional Test Garden Award, the equivalent of the High Commendation Award.) The number of awards will, in part, depend on the enthusiastic participation of the Garden Judges. For the convenience of those judges who need to refresh their memories, there follows a reprint of the Regional Test Garden Rules.

Let us have a good turnout and a large vote for 1967, our first RTG year.

Regional Test Garden Rules

- A. Rules for Regional Test Gardens
- B. Recommendations to the Regional Vice-Presidents
- C. AIS Policies
- D. Present rules restated

A. *Rules for Regional Test Gardens Revised.*

1. The Regional Test Garden will be under the direct supervision of the Regional Vice-President, but he may appoint some other member or a committee of members to be in actual charge of the test garden.
2. All seedlings will be grown under a code number which will identify the Region in which the test garden is located, the year in which the seedling was received, and the seedling itself. An example of such a number would be 1-64-33, which would be decoded as follows: Test garden located in Region 1; Seedling received in 1964; and Seedling

- #33. If the region has more than one RGT, then the region number should be combined with a letter of the alphabet e.g. IA-, IB-, etc.
3. The Regional Test Garden Award will be voted on by the accredited garden judges under code number only.

4. The AIS Awards Chairman will be notified annually of the identity of each newly planted and coded seedling submitted for testing. Upon receipt of this information the AIS Awards Chairman will annually designate such gardens as an Official AIS Regional Test Garden, providing compliance with the above rules has been made.

B. Recommendations

1. Each Regional Vice-President is expected to promote the establishing of at least one regional test garden in the Region. Some of the larger Regions will need more than one test garden.
2. Reasonable protection and care will be impartially accorded all seedlings under test.
3. Coded RTG seedlings may be judged during any bloom season and removed in the event they win the RTG Award. Otherwise, seedlings should be removed after the third year of residence in the RTG.
4. Past experience, within the AIS, suggests that RTG areas are an excellent location for the conduct of Garden Judges Training Programs. The use of the AIS National Test Garden Score Card is also helpful, and thus recommended.

C. AIS Policies.

1. All seedlings will remain the property of the hybridizer (presumed to be the individual who submits the rhizome to the RGT).
2. As has been stated many times in AIS publications, it is definitely understood as a matter of "AIS ethics" that no use will be made of test garden seedlings for propagation and for breeding purposes.

D. Present Rules Restated.

1. Accredited AIS Garden Judges have the privilege to vote for a total of ten (10) RTG and HC Awards; in any combination. If the vote is for an HC Award, the seedling number and hybridizer's name will be entered in the appropriate place on the ballot. If the vote is for the RTG Award only the code number is recorded.
2. Both the RTG and HC Awards entitle the recipient seedling to be entered in the National Test Gardens for further evaluation. (Inquire: Dr. Raymond C. Allen, Chairman, National Test Gardens' Committee.)

HILDA'S IRIS GARDEN

Introductions for 1967

ALPINE YODLER (MAGIC HALO X ALPENROSE). E. 36". Very smooth magenta self with brown beard tipped magenta. Satin textured, good form and branching, non-fading but slow of increase. HC '63. \$35.00

BURNISHED ROSE (CREAM & TANGERINE x SWEET REFRAIN) X (VALIMAR x MEL-BREAK). M.34". Between erysanthemum crimson and Indian lake (Wilson 824/3 and 826/3); a truly new iris color; large, beautifully formed flower with red beard. HC '66. \$30.00

JANET DIANE (ARCTIC FLAME X SPRING FESTIVAL). E. 38". S spinel pink; F same with white at hafts; all petals nicely laced. Vigorous grower. \$25.00

MONTEREY BAY (DEMETRIA X HENRY SHAW). E. 36". Medium blue (Wilson sea blue 43/3) with all good qualities of its two famous parents. Long-lasting bloom that never fades; white beard tipped blue. \$25.00

TULE SANDS (BUTTERSCOTCH KISS X (TAFFY BROWN x LOLO TRAIL)). M. 38". Soft tan self (Wilson Egyptian buff 407/2). Heavily laced. Good growth habits and rapid increase. \$20.00

TULE SPICE (MAJORETTE X IRMA MELROSE). BB. E. 24". Dainty plicata in color pattern of its pollen parent. Good branching and small foliage. \$15.00

MRS. H. F. FAIL

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INTRODUCTIONS FOR 1967

STANDARD DWARF

BLUE MOSS—Sdlg. #M85-1 (Tall blue-purple x RED AMETHYST) X sib. Medium blue standards. Falls olive, blue at edges. Nice form. HC 1960. \$5.00

CHERRY GARDEN—Sdlg. #M134-1 (CAPTAIN GALLANT X pumila Y9C Randolph). Red from purple side, velvet smooth. HC 1966. 5.00

MERRY SUNLIGHT—Sdlg. #M113-2 (A25-57 DORIOT X M55 ((BRASSIE x (CARPATHIA x tall yellow from pinks))). Ruffled, sunny yellow washed gold on the falls. HC 1966. \$5.00

INTERMEDIATE

LIGHT CAVALRY—Sdlg. (I27-1 (CAPTAIN GALLANT X ((CARPATHIA x LAPHAM C46) x RED ROCKETTE))). Beautifully formed flower. Crimson lake, with crimson hafts. HC 1966. \$ 7.50

BORDER BEARDED

BOTANY BAY—Sdlg. # B10-2 (BOB'S BLUE X LITTLE DUDE). Lobelia blue self. Delicious fragrance. Excellent proportion. HC 1966. \$10.00

TALL BEARDED

APRICOT ROYAL—Sdlg. #684-1 (SPANISH AFFAIR x MARILYN C) X Shoop 60-11. Large well-formed flowers of smooth deep apricot. Well branched. \$25.00

BRIGHT BUTTERFLY—Sib to above. Exciting; heavily laced buds open into beautifully ruffled flowers of brilliant clear orange. Tightly closed standards. This is a beauty. 25.00

CRYSTAL FLAME—Sdlg. 604-1 494: Tell's 49-11C, CLOUD CAP and Hall sdlgs. X Shoop 57-11, tangerine bearded blue). Large white with bold red beard, which apparently performed well in Dr. Knocke's garden at the National Meeting last year. Excellent parent. 26 votes for HC. 25.00

Order from this ad, or send for more descriptive list of these and previous introductions. My introductions only.

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A very wide, wide crisp flaring white self, enhanced by a clean bright gold washing at the haft area, with matching gold beard. The lightly ruffled large, beautifully formed, heavy-substanced flowers are nicely spaced on sturdy, straight bloomstalks. Blooms heavily over a long period. Good growing habits. Introducing a year early because of demand, stock limited. 36 inch. Early-Midseason. Sdlg. 61-7A. HC '62.....Net \$25.00

A proven parent producing wide-hafted, clean well-branched seedlings

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GOLD CITATION '65. Deep golden yellow lacy self. HM '66.....\$20.00

HONOR GUARD '66. White Standards, violet blue falls. HC '64....\$20.00

BLUE ACCENT '66. White self, violet blue beard. HC '61.....\$17.50

One each Gold Citation, Honor Guard, Blue Accent ... \$40.00

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ILLINI GOLD X RAINBOW GOLD. Large, ruffled and laced. Non-fading, canary-yellow self; deeper yellow beard. Closed standards; semi-flaring falls. Heavy substance. Strong, erect, well-branched stalks on vigorous plants. Fertile both ways. M-L. 36". HC 1966.

INTEGRITY. Sdlg. 62-72\$20.00 each

HAPPY BIRTHDAY X Hall deep pink sdlg. Ruffled, deep pink self; red beard. Heavy substance. Very vigorous. Fertile both ways. E-M. 34". HC 1966.

ROBIN REDBREAST. Sdlg. 62-70.\$20.00 each

MARY RANDALL X sib to BIG CHIEF. Well-formed and branched. Raspberry-red blend; tan edging on standards and falls. Red-brown beard. Fertile both ways. E-M. 36". HC 1966.

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The Evolution of One Iris Garden

EDITH S. SMITH

Our iris garden in Little Rock, Arkansas, was not planned; it just happened. Since we didn't know one year what we would do the next, this garden has had no landscape planning, just raised iris beds scattered around, haphazardly here and there. When we need more room for irises, we just dig another bed.

It all began in 1958, when a friend of ours was forced to divide her irises and offered to give us some of them. We were not very interested, but finally consented to take about six rhizomes and plant them. These were unnamed, of course, and we dug a hole in the grass and put them out.

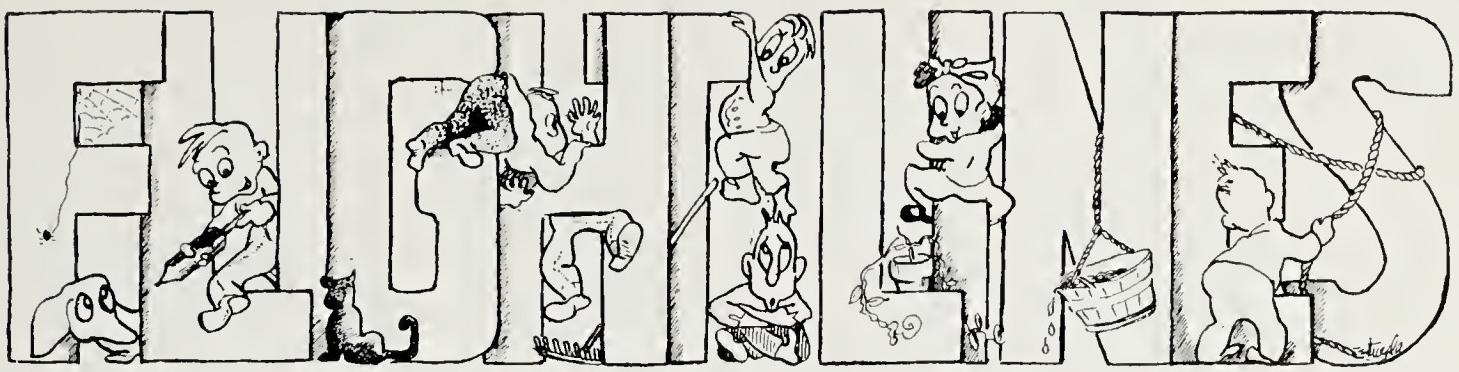
The next year we made our first iris order; spent \$5.00 for a collection of six Dykes Medal winners (having no idea what the Dykes Medal was, but it sounded like a bargain). We made the holes in the grass a little bigger and put these rhizomes in with the others, and immediately forgot the names of them.

Then we discovered iris catalogs—and FOAMING SEAS, in particular! This iris was then listed at \$7.50, which seemed a lot of money to us for one flower; but the colored picture in the catalog finally swayed us, and we bought it. It didn't take long for this one, and a few others, to really take us over. We learned the importance of names for irises, and prepared beds for their cultivation; and started buying a few new introductions each year. Shortly thereafter we found that new irises could also be obtained by trading with friends in various parts of the country. As you have guessed by now, this thing snow-balled on us and has developed into a full-time hobby.

In these very few short years we have grown many varieties and watched them bloom, and along the way have discarded many of them. We now have what we consider to be a fairly good display of recently introduced irises. Of course, no one can have all of them, even though we would like to do just that. We now have a total of some 340 varieties, including forty-six 1964 introductions, thirty-seven 1965 introductions and twenty-six 1966 introductions; plus a display of fourteen guest seedlings from various parts of the country, and a guest from Bob Schreiner, named ROYAL TOUCH, which we understand is scheduled for release in 1967 or 1968.

This past year we made our first cross and are now looking forward to seeing our own seedlings bloom. Also, this past year we started making colored slides of irises in bloom; and have had very good luck with them, which enables us to enjoy the blooms the year 'round.

This has all been a lot of work, which we have done ourselves, and enjoyed very much. The results have been very gratifying, even though we have sometimes been frustrated by a late freeze, an occasional experience with rot, and one instance of scorch. Altogether, we have enjoyed it tremendously and are looking forward with great plans and anticipation, to the years ahead of us.



AIS ROBIN PROGRAM SECTION

PEGGY BURKE GREY, *Editor*
8191 Franz Valley Road
Calistoga, Calif. 94515

Winter Garden Visits

Let's take an armchair visit to the gardens of some of our robin friends and recall with them how some favorite irises grew in various areas. In Columbia, South Carolina, Ed Teague reports that his iris bloom started February 8th with the reticulatas. His Dutch and Siberian varieties were pretty, and with the Japanese irises he had bloom through July, with the vesper irises to carry on into August and some rebloomers for October and November.

"Just about all of my tagged TBs are either one or two-year clumps, with last year's new ones short on the bloom side. I started over after using 2-4-D spray when I decided to start trying to cultivate a lawn. All of the real oldies down by the waterside which weren't hit by 2-4-D are doing beautifully. They're untagged and I don't know what all of them are, even when they bloom. I measured HELEN McGREGOR, INDIAN CHIEF and MISS CALIFORNIA and they were all 48" tall. The good wife says if I'll throw all of the other name tags away, then they'll bloom. New ones I've enjoyed are EDENITE, ROCOCO, BIG GAME, FLAME KISS, FLUTED HAVEN, GRAND TETON, SIERRA SKIES, and TECHNY CHIMES. CASCADIAN, GARDEN GOLD, SNOW GODDESS and VIOLET HARMONY are pretty, make a good show and just bloom themselves to death. The devil with these that you pamper, are the latest things, and so forth, but just don't bloom. My want list includes WILD GINGER, CASHMERE, RIPPLING WATERS, STEPPING OUT and WINTER OLYMPICS."

Traveling to Demarest, New Jersey, we find Jean and Jack Kilroy, who tell us, "It is not by choice that we have decided on "100," but the lack of space. This year we extended the beds from the side of the house into the front yard. Flowers in the front of the house is unusual in these parts, so perhaps we'll start something. Irises have 'grown' on us and we are adding FIFTH AVENUE, GYPSY LULLABY, HENRY SHAW, FLUTED HAVEN, INDIGLOW and DONNYBROOK this year."

In Marshallville, Ohio, Marie Wertz reports, "CHINESE CORAL bloomed and everyone like it. Another I like was ROSIE O'DAY. The big surprise was

NATIONAL ROBIN PROGRAM DIRECTORY

National Robin Program Director

Bill Krasting, 86 N. Kings Highway, Cherry Hill, N. J. 08034

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SNOW TRACERY, which bloomed for the first time. It is huge, has wonderful substance and really is beautiful. ONE DESIRE bloomed from early to late and I still think it is one of the best pinks."

Queenie Crawford in Fremont, Michigan, noted that most of her irises bloomed; of about 100 year-old clumps she counted 79 that bloomed almost right away. She noted that WINE AND ROSES was just beautiful, but did not grow very tall there. And in Missoula, Montana, Minnie Price added, "MY DARLING was so beautiful, but it must be planted in part shade or it fades its beautiful coloring." In Richardson, Texas, Bob and Ellen Demory note, "We have a planting of all the Dykes Medal irises since 1927 through 1965; however, COPPER LUSTRE never seems to quite make it here."

Irene Wilhelmsen gardens in Livonia, Michigan: She notes that she finds horsetail the miserable weed in the iris and seedling beds there. "My main reason for wanting to start all over with new plantings is that I thought I'd try wider borders with the iris intermixed with poppies, peonies, lilies and the like. Some new irises I enjoyed were STEPPING OUT, TUXEDO, PRINCE INDIGO, CHAMPAGNE MUSIC, SPARKLING CHAMPAGNE, SEASHELL MUSIC, WINTER OLYMPICS; and in my own garden FRENCH FLAIR, ONE DESIRE, EDENITE, PACIFIC PANORAMA, CELESTIAL GLORY, JERSEY BEAUTY and GOLDEN MASTERPIECE, which was the last one to bloom for me—a honey." Irene notes also, with humor, "You learn one thing from having a show. The garden can look just gorgeous with irises, but when looking for a specimen for the show, you find there aren't enough irises to choose from."

Marge Hagberg in Westmont, Illinois, describes a couple of things in her garden year which make us sigh sympathetically and think "Better thee than me!" "The clumps here grew so large in two years that I decided everything should come up and be reset. Yes, my aching back! With some 500-plus clumps to dig, mark, cut and clean, it was a chore. I dreamed about irises and almost wished I would never see another one! We here in the Chicago area had some of the most *varied* weather. On the morning of May 11th I woke up and thought I was having a bad dream. It was snowing! The tulips were hanging with big blobs of snow on the blossoms and bent to the ground, and all the trees and shrubs looked like fairyland. Talk about Christmas in May! Later in the day the snow turned to rain and it rained for four more days."

Rena Kizziar reports on her trip to the convention at Newark. "Bee Warburton had brought some dwarfs and medians along and these were displayed in the hotel lobby. I recall particularly liking BLUE IVORY, EMMA FRANCES, VELVET TOUCH and TIFFY. Probably the most popular TB was Roy Brizendine's ROYALAIRES, a brilliant rust color. Also well liked were ECHO ONE, yellow with brown lines through the falls, different; CRYSTAL BAY, a taller KISS-ME-KATE; WARLOCK, a nice red-black; PERSIAN FANCY, brown fancy plic; BERCEUSE, tones of blue; COMMENTARY, blend of tan and violet; CAMBODIA, similar to COMMENTARY but better; ARCTIC MYST, nicely laced lavender intermediate; ELFIN SILVER, blued silver; SKYDIVA, white deepening to pale blue at the fall edges; GOLDEN SNOW, white with brilliant gold hafts, very good contrast, but standards looked weak in Knocke's garden. I also was intrigued with the novelty patterns of the old diploids in Presby Gardens." Rena listed the medians at home in Norfolk, Virginia, which she particularly liked, "AQUA GREEN, BLACK BABY, BLUEBERRY MUFFINS,

DESSERT, FAIRY JEWELS, DAINTY DANCER, NAMBE, ROYAL THUMBUPT, SUNNY HEART (but the flower and stalk were too large here), TULARE, YELLOW DRESDEN, ZIMBRAKEET. A number of older irises surpassed newer ones in ability to withstand strong winds. Such irises as BLUE MOTIFE, BRAVE BANNER and FRENCH FLAIR needed no staking when a lot of others did. BLUE MOTIFE also was one of the first to bloom and the last to quit. Substance and form were excellent. We need more of this type."

MayBelle Wright took some good notes of border bearded performance in her Bloomington, Minnesota, garden, "BLACK FOREST, still one of the best; CUTE TOMATO, flower too large for height, poor form; FRENCHI, good; JUNGLE SHADOWS, good proportions, strange but beautiful; LA NINA ROSA, nice, but flower a little too large for my idea of a perfect border iris; LITTLE DOLLY, fine color, flower much too large and dogeared; LITTLE DUDE, lovely; LITTLE GEM, good proportion, falls a little narrow; NATIVE DAUGHTER, nice size, color and substance; SANDY JEAN, usually much smaller, good color, vigorous, a little narrow, makes a good clump, and colorful; SAUCY PEACH, good size, and proportion, but standards too wide open; YELLOW DRESDEN, beautiful, wide, good substance." MayBelle's evaluation is that of the border iris breeder considering material for class improvements.

In another entirely different group of irises, the Pacific Coast native species and their hybrids, are some exciting comments on the named varieties just now beginning to become available to gardeners who can grow them. Roy Davidson of Seattle, tells about them.

"Several new garden plants performed well, notably Dr. Lee Lenz' two new yellows from *I. bracteata*, GRUBSTAKE and RIPPLE ROCK. These are similar, broad petaled and large, from the tri-species line of *innominata-douglasiana-bracteata*. They are vigorous; a single division from last fall gave five stems on one and six stems on another, mostly with two flowers. Together they gave bloom for five weeks, one earlier than the other, with an overlap in season. This is good, for many things bloom out too fast." Roy also reports that he recovered three plants of his supposedly "lost" red *I. innominata* HINGES OF HADES from a Portland, Oregon, garden, and is now propagating it. He made numerous crosses with it and CLAREMONT INDIAN (Lenz), another once-thought-lost variety.

Carol Ramsey in Wichita, Kansas, likes the dark irises, and tells of some she liked. "DARK FURY is pretty early here and the freeze damaged every bloom on it; not a one was normal. Sure hope that I have better luck with its offspring, NIGHT SONG. Most of the black ones did exceptionally well. LA NEGRA FLOR was beautiful with branching on the branching. TOTAL ECLIPSE was lovely. It just likes to bloom once in a while and this was the year! JET BLACK was excellent as always. It, too, is early and had the first few blooms nipped by frost, but then was all right. It's one of the blackest I grow. Nothing compared with LICORICE STICK, though. It was just gorgeous." For those who like the plicatas, Carol says, "WILD GINGER and STEPPING OUT—what more can you say about plies! And anyone who likes them also ought to have SIVA SIVA; its so different."

We have to feel a twinge of sympathy for Carol after another of her reports, "I might not have minded having to cut back all the irises after the March freeze if I hadn't had to do it all the previous September after the tornado.' Talk about aching backs!"

Fond Recollection

The elder statesmen and women of Irisdom may find fond recollection in hearing some excerpts from a robin letter by Sarah Wing Highley. Sarah remarks, "I got my first iris from Grandpa Charles Wing when the iris was taller than I was. I was three or thereabouts at the time. I ran off every day for a week to pet it so they took it up in full bloom and moved it to our yard for me. Both the name and the plant have been lost over these many years. Grandpa Wing has been dead for many years now. His nursery is now pasture and farm field."

Perhaps someone can help Sarah find out about another iris from the past. Sarah asks, "Can you name or suggest the name of a very large white which would have been new somewhere between 1939 and 1942? It was described by Grandfather Wing as 'the best white he had ever grown.' I do know it was very large and tall." Sarah also remarks, "I note that Wayside Gardens are still pushing GUDRUN as The White Iris . . . to me it looks like someone had sat on it."

Things You Might Try

Virginia Thurlow in Cumberland, Maine, talks about several things she has done which might well be tried by others with the same problems to solve. "I noticed a plant of APRICOT DANCER wasn't looking too good. There were traces of iris borer at both increase shoots of a one-year fan carrying a podded stalk. The shoots were so badly damaged that all the leaves fell away. I broke off the pod stem and dug what was left . . . some badly chewed rhizomes. I cleaned them up and put them in a pail of damp vermiculite. Less than a week later new green shoots were coming from both tips, and the little nubbins along the sides were putting up shoots and developing nice roots.

"Two batches of plants received during a dry spell were a little the worse for being shipped, one very dry and the other with a faint odor of rot. I stood them up in metal boxes and sprinkled vermiculite over the roots and about one inch deep over tops of rhizomes. In four days they were sporting new roots, all crisp and nice, with no sign or odor of rot at all. I watered them for a week or so after they were planted and they have taken hold remarkably well for such dry weather."

Virginia reports that she gathers seed pods on their stems when they are almost mature, stands them in cans of damp vermiculite near the door where she can keep an eye on them. This helps prevent loss of seeds in the garden. She tells of another time-saving idea for her hybridizing:

"During bloom season I keep a big pocketed apron hanging beside the door and grab it on every trip out. It has notebook, labels, pencil, tags, and tweezers . . . I keep all I need for instant action, including a large aerosol garden insect bomb, to save time and steps. I put notes in a short-hand notebook (in shorthand), and then have a great time in the winter transcribing the muddy notes!"

Carol Ramsey says that she's convinced that when an iris fan sustains an injury it should be cut back. "I wondered about cutting back fans during a heat wave, and tried it on a few, and the few cut back seemed to come to life again long before the others. I didn't cut back as far as I did after the freeze or tornado, but just a bit below the dried brown part of the fan."

Edith Cleaves reports another handy trick. The first will keep a seed flat damp if you have to be away for a short time. "Fill a gallon bottle with water. Take long strips of cloth, about 1" or 1½" wide. Lay strips along a row of seeds and have the end of the strip in the jar of water. Another method is to take an intravenous bottle from a hospital and fill it with water, turn it upside down, adjust a small strip clamp on the fine tubing, which is laid in the center of the flat. The tubes can be used to tie up plants. The hospital throws them away."

Some Culture Ideas

We never seem to run out of interest in the many things gardeners do to help irises perform at their beautiful best. Mary Herd, plagued with aphids, found this solution. "I got a big handful of winter onion and garlic tops, put them through the food chopper, mixed it with water, strained it and sprayed the irises. Next day not one aphid could be found—do you blame them for leaving?" (Nope! And I hope the wind wasn't to houseward!).

Mary reports also, "We got about 30 bales of old coarse stalks which we put through a 14-day compost process for our flower beds. After it is shredded, which can be done by mowing over it several times if you have no shredder, put down a layer of shredded stalks, sprinkle it with water, add a shovel or two of manure or rich dirt, then another layer of your hay or whatever you might use. Continue this layering process until all your material is used and on the fourth day turn it and sprinkle it, always keeping it just moist, not soggy. Turn it every second day for the next ten days and every weed seed seems to be killed. It is ready to put on your beds or under the clumps. It makes wonderful potting soil when mixed with some sand or soil."

The Incomparable Iris

H. E. TRANTHAM

From whence came the beautiful flowers?

From whence came the beautiful iris?

From whence came beauty?

Flowers, just as many other valuable possessions of man, are of no consequence to him if he cannot see their beauty; if he cannot comprehend.

Sadly, we must admit that some are spiritually blind to beauty. To them, flowers are useless and a waste of time.

Beauty, being abstract, cannot be touched; neither can we hold it. We can only find it. It is not gold or silver mints. It is not extravagance or wealth. It isn't large and it isn't small. Size holds no dimension for beauty. A mountain may dwarf a daisy, but it cannot destroy it. It can only complement it. Their life is a brotherhood and in unison they praise God. All beauty is akin.

A flower is the symbol of beauty. It also is a symbol of life, sympathy, and all that is dear to the heart of man. Ugliness and monotony vanish when beauty creeps in, for beauty is a reigning queen. Being God-given, it uplifts man, who respects it. It is a fortress of strength to man's heart and soul.

Beauty can be found in all of nature, if one has the eyes to see it. "Seek and ye shall find; knock and it shall be opened unto you." To enjoy beauty demands a slowdown in man's mad rush in life.

*How few will find the rainbow's end,
But joy should mark its journey, bright.*

Man without a sense of beauty has lost his approach to life. There is no place for him to go. He has sold his porridge for naught. Springtime has turned to blistering winds, and beauty to naught.

With dry vocal chords man sings of the beauty of heaven, yet he is unable to comprehend the beauty that God has given him here below. It is more than color blindness in a drab world.

His candle is out,
His light is gone,
His only whisper,
"I am so alone."

As Alan Shepard was flying through space, he looked through a peep hole in his space capsule and got a glimpse of the earth below, and exclaimed, "Oh, it is so beautiful; it takes my breath away."

Joyce Kilmer felt the same thing when he penned his immortal poem in tribute to the mighty tree.

I have seen people gaze in admiration upon a lovely flower and in exhilaration exclaim, "Oh, it is so beautiful; it just hurts me to look at it."

But why does it take the breath away?

And why does the oak tree forever "lift its leafy arms to pray?"

And why does it hurt to look into the heart of a flower that is praising God, its creator, with its capricious and melodious song?

God alone must give the answer. These things are celestial and divine, but they are not God. And whatever they have meant to man, God said it first, for in scripture we find that at the end of the fifth day of creation, God paused to view his creations and said, ". . . and behold, it was very good."

As God forged the world, this spark from the forger's anvil lived endlessly in the form of a flower to light man's journey; and down through the centuries it has traveled side by side as a companion to man. From the most humble slave who tilled the soil that grew them to the tyrants who possessed them, man has stood in breathless awe before a lovely flower.

"Consider the lilies of the field, how they grow; they toil not, neither do they spin: and yet I say unto you, that even Solomon in all of his glory was not arrayed as one of these." Bible scholars tell us that "the lily of the field" often referred to in both the Old and New Testaments was none other than the iris. It was regarded as the most beautiful flower of all the land, and for centuries has been referred to as a lily. This flower is entralling in its unexcelled brilliancy, for it possessed an incredible multitude of color ranges and patterns. A garden of such glory at dawn is an ocean of scintillating jewels, interspersed in serene splendor with sunrays and dewdrops.

The iris has never suffered a silent period at any time, for it always has existed in the limelight of fanfare and fame in the art and literature of the countries of the northern hemisphere, from Palestine and Egypt and the hanging gardens of Babylon to the Fleur de Lis of France.

INTRODUCING IN 1967

ENIGMA (C. and K. Smith) E.M.L. 35" \$25.00 NET

Sdlg. 60-5 (QUECHEE X REGAL SPLENDOR) Smooth, rich, garnet-red self; falls of velvet texture are adorned by dull-gold beards. Flowers flaring 7" are well placed on stalks with candelabra branching. The plants are capable of producing stalks with six branches, plus terminal.

YOUNG AND GAY (C. and K. Smith) E.E.M. 30" \$25.00 NET

Sdlg. 62-3 (SUMI SAN X Smith yellow seedling 59-4) Ruffled and flaring flowers of cool citron yellow, in profusion. One of the earliest to bloom and a very welcome herald of the beauty of the tall-bearded iris season. A fine plant for the foreground. A clump looks like a well arranged bouquet.

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TOOTH ACRES • 1967 INTRODUCTIONS

'TIS MIDNIGHT. Sdlg. C-1617. BLUE BERMUDA X ALLEGIANCE, involving BLACK FOREST and PIERRE MENARD in BLUE BERMUDA. Large deep gentian blue self with beard to match. Wide flaring falls with touching standards. Different. Good plant. Test proves it to be a worthy child of famous ancestors. TB. 36". M. HC 1966. A breeder's iris. \$25.00

HEAVENS ABOVE. Sdlg. C-1642. GALILEE X ((CAHOKIA x Meiss 177C) x CLIFFS OF DOVER) x (CAHOKIA x Meiss 177C)). The Meiss is a large white. Huge sky blue self with hint of CAHOKIA tint. Slightly rounded form. Heavy substance. White beard. Plant is sturdy and prolific. Texture of bloom smooth as silk and gleaming like dew diamonds in the sun. A judge's opinion, "Magnificent; never saw anything like it." TB. 35". ML. HC 1966. \$25.00

REDENEYEL'LA. Sdlg. C-1634. INCA CHIEF X (Hall 46-45 x OLA KALA) x (FABULOUS KATE) x (APRICOT GLORY x INCA CHIEF). Standards deep yellow. Falls bright clear red with ribbon of yellow all around. Yellow underside. Good form. A conversation piece for the front of the garden. BB. 20". EM. \$7.50

Home of IRISH CHARMER, out of the best of the Hall and Fay pinks. Sold out last year. A few to go in 1967. \$25.00

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MY BLUE HEAVEN—Near white standards, horizontal blue falls, well branched	\$35.00
WHIRLING CREAM—Large cream "Whirlaway"	\$25.00
ERNIE OF SYRACUSE—Shiny satin ivory with full protruding orange beard	\$25.00
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All are strong growers and hardy for coldest eastern winters. Also limited one per customer 1966 introductions:	
MERRY CHRISTMAS—Large wavy white with red beard	\$22.50
DANCING PALOMINO—Frilly horizontal white; palomino center	\$25.00

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presents these ruffled beauties for your garden pleasure. All will be on display in the Golden Gate gardens in '67 and '68.

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ECHO ONE. HC '65. Rich yellow and brown plicata that puts on a good show wherever shown	\$25.00

NEW FOR 1967

DOVE IN FLIGHT. 36". This blended beauty is best described as near the color of a mourning dove. Very heavily fluted	\$35.00
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OP ART. 34". This novelty is the result of plicata breeding involving MEMPHIS LASS and TAHOLA. Cream stippled burgundy; attracts much atten- tion in the garden	\$15.00
COPPERETTE. A new plicata border iris, and a real beauty. COPPER HALO X plicata sdlg. Ruffled flower. Stem and foliage are in good proportion to the 3½" flower	\$15.00

NO OTHER LIST, SO ORDER FROM THIS AD.
STOCK OF 1967 INTRODUCTIONS IS LIMITED.

SAN DIEGO-IMPERIAL FALL SHOW



Thelma Carrington and Prize Seedlings

The San Diego-Imperial Counties Iris Society held its second Fall Show November 20. One of the writers called it the show of "the iris that throws blossoms for the second time in a year."

A new show arrangement was tried. It was scheduled as a *Cultivar* exhibit; that is, a separate horticultural class was established for each name, species or seedling. The artistic division was by *color* theme; entries in each class must have *one* color predominating. Also, for this show, the flower used *had to be grown* by the exhibitor.

Robert Hubley won Queen-of-Show honors with WINTER GOLD. Mrs. N. Reavis (Thelma) Carrington won the Silver Medal, and Mr. W. J. (Bill) Gunther was awarded the Bronze Medal. Mrs. Carrington won the Best Seedling Award with TAR RIVER, and the Bronze Medal for her special educational exhibit. Mr. Gunther won the Bronze Medal for a special horticultural exhibit, as well as honors for the best arrangement,

Unfortunately, the entries of Dr. Gordon Leveridge of Young, New South Wales, arrived two days too late for the show. His box contained Louisianas, California natives, tall bearded, Japanese, Siberians, Asia Minor spurias, and English hybrids, among which was a bloom of MARGOT HOLMES. But for the delay, the show would have had a real international flavor.

Because of the coming convention, the Society has planted irises on city and county properties, and the *iris* is the flower for the month of May on the Official Calendar.

MISSION BELL GARDENS

Introduce for 1967

CHARMAINE (Hamblen) E-M. 38". CORABAND X MAY MELODY. Luminous golden-apricot-yellow and dazzling white with a wide tangerine beard. Sparkling intense coloring of great garden value. The standards have a white area in the center and the flaring falls might best be described as apricot-yellow with center area of white so wide is their border. Broad ruffled blossoms of good size and substance. Strong well-branched stalks. Vigorous. No. H61-83. HC '66. Net \$25.00

DUSKY DANCER (Luihn). Midseason to late. 36". This could be described as a very dark black-violet—several shades darker than either parent—including the beard. But the blossoms are as romantic as the name! And appear to have been fashioned from lustrous black velvet with form near perfection. Wide ruffled petals, domed standards, flaring swirling falls. Fine substance and habit of growth, with well-branched stalks and good placement of buds. DARK FURY X BLACK SWAN. No. 63-50. HC '64, '65, '66. Net \$25.00

JANNI (Hamblen) M-L. 30". (FAIR LUZON x GARDEN PARTY) X FLEETA. Delightfully ruffled and laced pink self with cerise beard. Beautiful wide-petaled form and heavy substance. Domed standards; flaring falls. Strong stalks with low branching. Vigorous plants. No. H59-73. HC '66. Net \$20.00

MUSIC HALL (Hamblen) E-M. 36". ((GARDEN PARTY x (CONVENTION QUEEN x BLUE CLIF)) X ((FAIR LUZON x (ROSEDALE x PINK ENCHANTMENT))). Gorgeous peach toned pink with deeper beard. Exquisitely ruffled and fluted blossoms of beautiful form, large size and extra heavy substance. Strong stalks with good branching. Extremely vigorous. No. H60-152. Net \$25.00

STANDARD DWARF BEARDED

BLUE CANARY (Hamblen) M-L 10". (GRACE NOTE X sib of like color) Enchanting form, clear coloring and blue beards are the endearing qualities of this little darling. Standards light sulphur-yellow (Wilson 1/3). Falls canary-yellow (Wilson 2/2). Lightly ruffled, domed standards; flaring lilting falls. No. M63-8C. HC '66. Net \$25.00

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Pilgrimage to Aril Land

VIOLET LORENZ

Yesterday we drove to Corning, California, then five miles west to the home of Mr. and Mrs. Leo Clark. The Clark home is the old ancestral home of Senator Clark of California, which is over 112 years old.

Mr. Clark is an avid onco breeder who has raised onco species for 40 years. In reminiscing, Mr. Clark told us that he first became interested in hybridizing pure arils when he saw Lloyd Austin's imported oncos, particularly a giant strain of *I. gatesii*. He promptly bought six plants for \$80, and just as promptly lost them. Back he went and bought six more the following year, and lost those, too!

Gradually, through the years, he has learned to know how to handle these tempermental beauties, and today seems to have better luck growing them than anyone else we have heard about. This year, at the age of 74, he imported 100 rhizomes of *I. gatesii* and 100 of *I. susiana*. Mr. Clark says he has to work in large quantities because he doesn't have as much time to grow and work with them as younger people.

For many years he worked closely with Herbert Kerr, a close friend, and together they swapped seedlings, pollen and ideas. Kerr's aim was to get seedlings having 7/8 onco and 1/8 regelia blood, which he felt would eliminate many cultural problems the pure oncos have. Above all, he wanted an onco-like flower on a vigorous plant. To this end he partially succeeded, creating hybrids having 6/8 onco and 2/8 regelia, before his untimely death in the late fifties. Upon Mr. Kerr's death, Mrs. Kerr called Leo and told him she wanted him to take anything in the garden that would benefit Leo carrying on Mr. Kerr's lines in addition to Mr. Clark's own lines. This he did, and armed with these and the parentages copied from Mr. Kerr's stud book, he went to work. Using Kerr's seedlings with his own, and some of Austin's he had purchased, he has succeeded not only in attaining Mr. Kerr's goal, but has created many hybrids of his own, strains of 3/4 bred. At present, I know of at least six or seven lines of 3/4 bred Mr. Clark is working with.

Numbered seedlings, under observation for future introduction, include all of his strains of 3/4s, pure onco hybrids, and various other lines of mixed onco and regelia ancestry. Several hundred new seedlings from the above lines will bloom this coming spring to whet the appetite of all aril lovers.

Some of the stars you will see in his garden include the first true pink oncos, whites with red signals, a really red onco, beautiful yellow and white amoenas out of JUDEAN CREAM, yellow sprinkled with golden-brown glitter, real greens, some approaching turquoise, and blends of every description. Mr. Clark does not believe a signal is a signal unless it is at least as big as a thumbprint; and we heartily agree, and so does everyone else when they see his seedlings.

One of the things he will be working on this spring is putting that

black signal on some of Wiloh Wilkes' white-colored half-breds. He also will be busily crossing all of his newly imported species.

Bloom time starts in mid-March and continues into the middle of April. His pure oncos will bloom first, with the 3/4s coming on a couple of weeks later. Anyone loving arils should definitely make this garden a "must" to see, as his grounds are a veritable fairyland of bloom. Mr. Clark loves to have visitors and nothing pleases him more than to talk about aril breeding with aril lovers. Be sure to put it on your trip list for a real thrill.

Walker Ferguson's Garden

W. J. (BILL) GUNTHER

Visitors to Walker Ferguson's garden in Escondido, California, during the 1966 Region 15 tour, were treated to a display of what may be the most advanced strain of spuria hybrids on earth.

Long rows of tall plants were topped with brilliant blossoms in peak bloom. Most were too new to have been introduced; they were labeled with seedling numbers rather than with cultivar names. And because the tour schedule did not provide enough time to inspect them all, Mr. Ferguson had placed tall stakes to mark those plants which deserved special attention. Some of these had color patterns never before seen in spurias.

Mr. Ferguson tends his seedlings personally, and his vigorous plants provide a vivid demonstration of the way in which spurias respond to expert care. This season his young plants received feedings of dairy manure, granular fertilizer, liquid fertilizer, trace elements and ashes. They were watered with well water, which is free of chlorine; and they were cultivated so frequently that no weed which sprouted near them had a chance.

Because of this intensive care, and because of the ideal climate of Escondido, Mr. Ferguson's spuria seedlings are heavily clumped and in full bloom only 18 months after the seeds are planted. This acceleration of generations in combination with Fergy's seemingly instinctive knowledge of which "crosses" to use, apparently explains his ability to make advancements so rapidly.

Everyone on the Region 15 tour seemed to agree that Ferguson's new seedlings are real improvements over previously introduced varieties. This opinion is shared by the AIS judges as evidenced by the fact that in 1966 Mr. Ferguson's spurias won the Eric Nies Award plus more AIS High Commendation and Honorable Mention awards than the total for all other spuria hybridizers combined. In response to recommendations, Fergy has listed a record number of seven new spuria cultivars as 1966 introductions.

Most visitors to Walker Ferguson's garden are so dazzled by his spurias that they don't even notice the smaller members of the genus iris which also are growing there. But, we can confirm that Fergy is also growing apogon iris species of series *Longipetala*, series *Laevigatae*, series *Ensatae*, and series *Californicae*. We hope that some time in the future he will hybridize and introduce cultivars from them just as he now is doing with his spurias.

IRIS INTRODUCTIONS FOR 1967

ROBERT R. YOUNG

CREDIT CARD (Knocke '67). K-59. TB, 42". M. Y5L. S tan blend with lavender; F the same. Fine addition to this newer color class. Very well liked at Newark; received 8 HCs. From stellar parents who are high award winners. BRIGHT FORECAST X RAINBOW GOLD. \$25.00

DRAKE'S CHANNEL (Knocke '67). K-34. TB. 40". M. B1F. Medium blue self; excellent form on wide ruffled flower. Winner of Region 14 Best Seedling Award 1965. Branching and growth very good, as are all of Dr. Knocke's introductions. CROSS COUNTRY X (HARBOR BLUE x REGINA MARIA). \$25.00

QUAIL (L. Craig). SDB. 10". EM. W20. Standards rich golden brown; falls white ground; dark gold beard. Sharp warm brown stitching to lighter white center of semiflared falls. A new bright plicata registered at request of Median Iris Society members who admired it. (PEE WEE x C-423) X pollen parentage lost since 1941 cross was made. \$5.00

SPARKLING SNOW (Branch '67). Sdlg. 6229. TB. 32". ML. WIW. White self, wide and ruffled exquisitely. Bright orange-yellow beard enhances this pure white flower. Three or more blooms open on well-spaced and well-branched stalks. Increases well; generous bloomer. (LAVENDULA x (((FIRST AFFECTION x (WINTER CARNIVAL x AZURE SKIES x WHITE Sentry) x (GREAT LAKES x WINTER CARNIVAL x sib))) X LIPSTICK. \$25.00

SPACE SHIP (Knocke '67). Sdlg. K-52. TB. 32". EM. W2V. A striking white-white ground, rich blue-violet edged plicata; deep blue beard. A-1 form on heavily ruffled and exceptionally well-spaced flowers; four-way branching; vigorous growth; increases well; very floriferous. A wealth of beautiful bloom for your garden, or for show bench stalks. HC '66. ROCOCO X SNOW TRACERY. \$25.00

THRUWAY (Knocke '67). Sdlg. K-35. TB. 30". EM. W1W. A fine addition to the wide-hafted, ruffled white class from two very good parents. The flowers are carried on well-branched strong stalks and are nicely formed. This fine white drew the attention and the judges' votes at Newark, receiving 11 votes for HC, as did SPACE SHIP. CROSS COUNTRY x FRIEDA'S FAVORITE. \$25.00

Other introductions for Dr. Branch, Dubes-Young, Mrs. C. James, Dr. Knocke, David Lyon, etc., are BLUE BALLAD, CROSS COUNTRY, JUST HEAVEN, REJOICE, RED SLIPPERS, ROYAL FANFARE, SHOWMASTER (H. Selle), SKYDIVA, SUNSET CANYON and WHITE PRIDE.

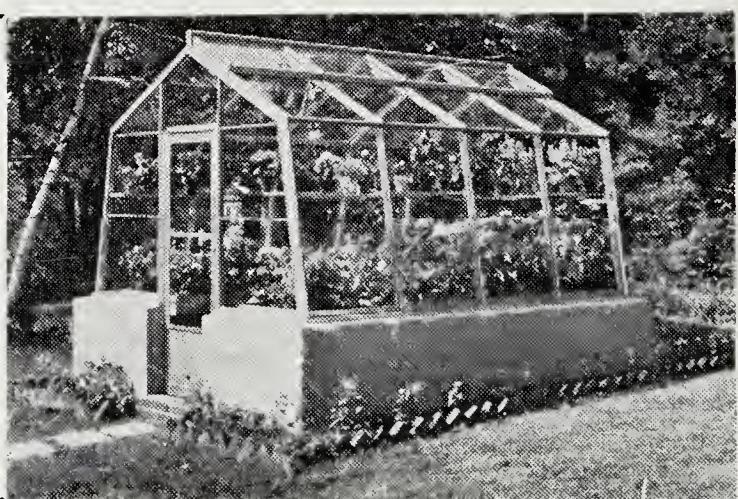
General Iris Price List on Request

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AMERICA'S FAVORITES

LARRY L. HARDER

When I hear someone complain, "Those popularity poll irises!! That list is for the 'birds,'" I get mad!!

My opinion of this poll makes me say that it gives a newcomer to irises, who has just found out about the vast array of irises that are available to be purchased, a list of some of the older ones and a few of the newer ones with which to start his collection. When one, who is new to irises, is confronted with the wide assortment of iris varieties that are available through any catalog that specializes in the genus, he needs to turn to some authority for guidance, with which he can make the selections that he wants to place in his garden.

Who of us who grow many varieties would not recommend to someone who is just starting in irises the following varieties: AMETHYST FLAME, ROCOCO, CELESTIAL SNOW, GALILEE, BRASS ACCENTS or CHRISTMAS ANGEL? Or, if the person to whom we are giving this recommendation for a starter collection wants something cheaper—might not we suggest BLUE SAPPHIRE, MARY RANDALL, FIRST VIOLET, HAPPY BIRTHDAY, and SNOW GODDESS? Or another collection could consist of TECHNY CHIMES, JUNE MEREDITH, SABLE NIGHT, TRULY YOURS and PIERRE MENARD. PINNACLE, DOTTED SWISS, BUTTERSCOTCH KISS, ELEANOR'S PRIDE and BRONZE BELL might make up another assortment to purchase. None of these would cost an outlandish fortune. Five dollars should purchase most of them. That doesn't sound too bad to someone who has just heard you say that you paid twenty-five dollars for MULBERRY WINE.

So why is the poll so bad? It is the guidebook by which we can get people interested in our favorite flower. Tell them that for an investment of less than \$5.00 they can have a collection of irises to grow in their garden that is recommended by the voting from the entire membership of the American Iris Society. And mention that it isn't a small minority of the members of the American Iris Society who are eligible to vote for this award of a position that an iris attains on the popularity poll, but that this position is awarded from the votes received from the *entire* membership.

You say that you get someone interested in the newer and better (?) irises? Fine! Give them a list from the popularity poll. Can't you see a grouping such as RAINBOW GOLD, PACIFIC PANORAMA, HENRY SHAW, RIPPLING WATERS and ESTHER FAY blooming in someone's garden. Or if you can sell someone on an elite collection such as SKYWATCH, WINTER OLYMPICS, STEPPING OUT, MOON RIVER and PRINCE INDIGO—do it!! And tell them to watch out for the stampeding crowds of dedicated irisarians; as they will be beating a path to their door as soon as they find out they grow such outstanding lovelies.

Oh! Wasn't it too bad that this past year such old time favorites as OLA KALA, BLUE RHYTHM and WABASH were finally eliminated from the poll. These three shall long be grown in my garden, as they formed the nucleus of my collection when I started with irises. GUDRUN and SABLE were two others that were the features of my garden, along with the other three, years ago.

And if you have the chance of starting someone on the road to iris gardening—get them started on all kinds and types of irises: Siberians, Japanese, arils, spurias, Louisianas, dwarfs, borders, tables, intermediates, and even the remontants. A variety of kinds will extend the iris season for such a long time that, after a few years, this new irisarian will be saying, "I've got irises in bloom all year long."

Isn't that our goal for all!!?

LANDSEND'S INTRODUCTION FOR 1967

CHOSEN BEAUTY (Mrs. F. Allen Brown '67). 36". M. White standards, delicate pink-orchid falls, beautiful ruffled and fluted petals, full rounded flowers of excellent form. This is really a stunning iris. There is a faint chartreuse glow on the hafts; same color beard, tipped white. This one will stand adverse weather conditions, with strong sturdy stems. 61-88-2. HENRY SHAW X LOVELY DIANA X LOVELY DIANA. HC 1966\$25.00

CORAL KISSED (Mrs. F. Allen Brown '67), 36". E to L. A huge gorgeously ruffled iris. Is the most luscious true coral color I have ever seen in an iris. Same color beard. Many judges and other garden visitors have said the same. Very sturdy strong stems. Makes a magnificent clump in the garden, as well as a perfect exhibition specimen. 62-105A. ENCHANTRESS X MAY HALL X FLEETA X SORORITY GIRL. HC 1966\$25.00

DIAMOND DUST (Mrs. F. Allen Brown '67). 27". BB. Bright dresden-yellow with deeper color beard. This vibrant yellow has the appearance of brushed-on strokes of white from deep in the throat to the tip of the ruffled fluted falls. A beautiful border iris; vigorous grower. 61-131-10. FLEETA X QUEEN'S LACE X PINK RIPPLES. HC 1966\$20.00

MISTY PARADISE (Mrs. F. Allen Brown '67). 36". M to L. A very delicate pastel orchid, with silver sheen. Has a creamy satin-like glow on the hafts; palest orchid beard, tipped cream. It takes two days for this large ruffled flower to open full size. The individual flowers last three days. Has long blooming season, with 3 and 4 buds in each socket. 61-107. HC 1966\$25.00

MORNING ECHOS (Mrs. F. Allen Brown '67), 36". M to L. The color of this iris is difficult to describe. A very radiant colorful iris, a blending of old gold rose-pink and cream, bright amber hafts, tangerine beard. All petals are ruffled, with fluted horizontal falls. Many buds to each socket; sturdy stems with excellent branching; heavy substance. 61-26. MARILYN C. X GLITTERING AMBER X VALIMAR. HC 1966\$25.00

SOUTHERN HERITAGE (Mrs. F. Allen Brown '67). 35". M to L. Standards and falls are a bright blending of apricot and amber, with apricot beard tipped cream. Large ruffled flowers of firm substance; large healthy plants, fast to increase. 61-101. JAN ELIZABETH X seedling of POINT LACE X VALIMAR. Seven votes for HC 1966\$25.00

TEENAGER'S BLUSH (Mrs. F. Allen Brown '67). 32". E to L. Blending of pastel tones of coral-pink and cream, with a very pale suggestion of the most delicate orchid deep in the throat. Coral-pink beard, tipped pale orchid. Have had very favorable comments of this one from different parts of the country where it is gisted. Medium size, very ruffled falls and standards. One of the first to bloom and has long blooming season. Good branching and excellent substance. 61-13-B. FLEETA X QUEEN'S LACE X PINK RIPPLES\$25.00

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LEXINGTON, NEBRASKA, SHOW 1966



Left to right: Lester Hildenbrandt, Silver Medal winner; Arnold Schliefert, Judge; Wayne Buchholz, Bronze Medal winner; Mrs. Donald DeLap with her Queen of Show SNOW GODDESS; and Mrs. Fredaline Nolan with best arilbred of show. (Photo: Courtesy Lexington Publishing Co.)

FIRST SHOW OF THE SEASON

CLARKE COSGROVE

For several days the newspapers had carried headlines of a paralyzing blizzard that swept across the northern section of the midwest and the weather bureau issued cold wave warnings and predicted snow for nearly 75 per cent of the nation, but the members of the Southern California Iris Society made ready to stage what was believed would be the first iris show of 1967 on January 21st at the Los Angeles County Arboretum in Arcadia.

The weather and the iris cooperated and thirty-five exhibitors brought 111 horticultural specimens to fill twenty-three classes. The two panels of judges included three out-of-region judges, Mrs. Alta Brown of Region 13, Sid DuBose and Ben Hager of Region 14, and Mrs. Eleanor McCown, Marion Walker and Bob Young of Region 15. The show chairman was the active and enthusiastic Exhibition Chairman for the region, August Phillips.

The silver medal was won by Jose Rivera of Escondido and the bronze by Mrs. Maxine Gould of Pasadena. A stalk of WESTERN HILLS with four beautifully placed flowers open won the Queen of the Show award for Mrs. Doris Foster. Mrs. Foster's arilbred seedling #66-36-6, a creamy yellow flower of rounded form with a small disc signal of reddish brown, was judged best in the seedling class. A special award went to William Wylam for a nosegay arrangement of an exceptionally fine form of lavender IRIS UNGUICULARIS.

Comments on “Iris Breeding For the Near-Beginner”

GENE (Mrs. W. R.) SIMON

An article by H. Senior Fothergill in the 1966 British Iris Society Year Book addressed to back yard hybridizers or “near-beginners,” as he calls them, is the most informative I’ve ever read on this subject.

Mr. Fothergill takes us humorously through the blooming of our very first seedling and the wealth of bloom following; then spells out line breeding procedures from there.

He illustrates the way to line breeding with an example of selecting the three best from a possible 20 seedlings from one cross and suggests crossing them to each other twice and making reciprocal crosses twice. As these are new untried seedlings, the hybridizer does not yet know their breeding habits or possibilities, hence the reciprocal crosses and doubling of crosses. Continuing this intercrossing, with occasional back crossing when indicated, to the third generation or even later, there may “appear some attractive characteristics that distinguishes its bearer from all other irises,” says Mr. Fothergill.

He also says, in his inimitable way, “Some irises will set pods when the pollen granted them has come from a notoriously unproductive father; some varieties of pollen will overcome the shyness of the most reluctant mother; some are even avid parents both ways.” This, of course, we know, but his manner of saying it is charmingly unique.

Incidentally, he says that his ANCIENT EGYPT, winner of the 1966 English Dykes Medal, is a most fertile parent, giving him seven pods out of every ten pollinations, and its pollen has been effective in nine crosses out of every ten. That’s an iris I’d like to own.

However, “returning to our muttons,” (a phrase Mr. Fothergill uses), he believes that success in line breeding does not necessarily need a large area of ground. He points out that Dr. Kleinsorge, world famed for his brown irises, used a relatively small “back yard” as it is termed in the U.S.A.” The late Paul Cook had no large area for his well-known accomplishments from inbreeding, and Sir Cedric Morris uses a very small part of his garden for growing seedlings, yet has a number of firsts to his credit.

Mr. Fothergill goes on to mention a number of irises, both English and American, whose potentialities have been far from fully investigated and others known to produce “some fascinatingly ‘different’ seedlings.”

His article has encouraged me greatly toward continuing to pursue lines I started work on four years ago. And thinking that many back yard hybridizers may not have access to the BIS Year Book, they may perhaps welcome this brief resume of the article.

Deviating from Mr. Fothergill’s article, I would like to express my pleasure with the entire BIS Year Book, if I can put my feelings into words. The English writers in the year book write perhaps a trifle more sedately than

we Americans do, but their choice of just the right words in just the right places without overstatement, their use of words not too commonly used in our country but singularly appropriate and the epitome of good taste, evoke my profound admiration.

Also to be admired and, I think, emulated, is their policy of saying exactly what they think of an iris in making varietal comment. Its shortcomings are mentioned along with its good qualities. It has long seemed to me that varietal comment in the AIS Bulletin is limited mostly to extolling new introductions with critical evaluation seldom written. Such comment is practically worthless to the reader who really wants to know how an iris performs.

Happy News from Flooded Florence

FLAMINA SPECHT

The Italian Iris Society wishes to inform you that, regardless of the terrible damages the City of Florence has suffered from the flood of Nov. 4th, 1966, the Iris Test Garden and *all* plants there are safe and doing well. The Florence Iris Garden is fortunately located on the Piazzale Michelangelo hillside, one of the few undamaged sections of our town.

Thus we are happy to announce that the International Iris Competition will take place, as usual, in May this year. This will be a very special occasion since we are celebrating the 10th anniversary of the Premio Firenze.

We wish to take this chance to explain some of our recent communications. The contents of our circular letter, sent to all hybridizers in the spring of 1966, has *not* been, most certainly through our own fault, clear to all who received it.

It had the precise and only meaning of offering to the foreign hybridizers the chance to become members of the Italian Iris Society, on the same conditions as the Italian members (\$5 yearly) with the advantage of entering varieties in the Competition free. It was also meant to give us the necessary encouragement to carry on and help us with the heavy expenses we incur to keep intact in the garden, for at least ten years, *all* varieties sent to the Competition.

We hope we have expressed our thoughts clearly, so as to avoid any unpleasant misunderstanding whatsoever.

Our thanks go to all hybridizers who have kept on sending their precious varieties to the Florence Competition and to all those who have helped in many ways, making our constant efforts very much worth while.

LET'S MEET
IN
DENVER



An Iris Freak in the Seedling Patch

Z. G. BENSON



In the spring of 1966 a seedling bloomed in our iris seedling patch without producing increase. It had almost everything else one might wish for in a seedling. The stalk was extra good, straight as a ramrod, and with four-way branching and terminal. The branching was wide. The flower was a medium blue self. The standards were domed. The falls stood straight out, but were a trifle narrow, which was about the only fault except the lack of increase.

I had heard that if one has a seedling bloom without increase and can set a pod on it, there is some chance of saving it, or at least of getting an increase. So I started with the first bloom and applied pollen to each succeeding bloom as it opened, but no "takes." When I was about out of blooms, a friend advised me to cut the stalk in half, or cut off the top half and see what would happen. She had tried this and it worked for her. As I had only a few more buds and had about lost all hope, I took her advice and cut the 37" stalk about three inches above the first

Iris seedling with proliferations. In the garden of Z. G. Benson, Wichita Falls, Texas. (Note: The trimmed plants in the background are numbered seedlings and have nothing to do with the proliferating plant.)

branch that looked as if it might have another bud to open in the bloom socket. I did this the first week in May. In three or four days things began to happen. What I thought was a bud coming out of the bloom socket on the lower branch was not a bud but a proliferation that grew straight up some twenty inches, with buds from top to bottom. In the meantime another one came out near where the first one started and it grew up about ten inches with eight buds. The first one had sixteen buds. They grew and looked like the buds of a gladiolus stalk. Each bud opened enough to show color, and the last one on the stalk opened full size one standard petal and three normal stylearms. The old blossoms did not fall off, but apparently just dried up and hung on the stalk.

The final bud opened the last week in August, but in the summer I noticed another proliferation (shown on the right in the photo) coming out opposite to the other two. This made three proliferations from that point. Then, from where some of the old blossoms had dried up along

the stem of the first proliferation, new growth started and formed small bulblets about one-half inch in diameter. Some of these made increases and can be seen in the photo on the top proliferation. Others dried up.

In all, there were six proliferations on and above the old bloom socket, and one on the old stalk about three inches above the ground. The top of it can be seen in the photo, at the lower left, where the shadow joins the stalk.

The plant also made two normal increases on the old rhizome.

On the 27th of September I took off seven proliferations and set them in the ground. As of now (January 18), there are five still living under glass gallon jugs with the bottoms broken out.

We have had a couple of proliferations in irises before, but nothing like this one, which proliferated and the proliferations produced more proliferations.

WETHERSFIELD IRIS GARDEN

INTRODUCTIONS FOR 1967

SILVER WEB—Arilbred (SPANISH PEAKS x JANE PHILLIPS) X CAPITOLA. E. 38". Light blue self with black beard. Well-branched. H.C. 1964. McKee Medal 1964.	\$25.00
LAKE MATTAWA—Arilbred (SPANISH PEAKS x JANE PHILLIPS) X CAPITOLA. E. 38". Medium blue self; black beard. Sib to SILVER WEB.	\$20.00
YANKEE BOY (BLACK TAFFETA X TRIUMVIRATE). M. 38". Dark violet self; ruffled with black beard. H.C. 1965.	\$25.00
NUTMEG STATE (LILAC FESTIVAL X (MY HAPPINESS x REVEL). M. 32". Medium brown self; matching beard; flaring falls.	\$25.00

FREDERICK W. GADD

172 MAIN STREET

WETHERFIELD, CONNECTICUT 06109

INTRODUCING FOR 1967

SAPPHIRE FUZZ. sdlg. 10-63. LADY BLUEBEARD X MARRIOTT. Midseason. TB. 32".
B1L. Fertile both ways (sometimes skimpy on pollen).

Out of several hundred seedlings involving nine crosses of the best known blue bearded irises, this was the best blue bearded seedling. It is a clear light blue self (no haft markings), with slightly ruffled, semiflaring falls and domed, overlapping standards. The vivid blue beard makes it distinctive. The substance is heavy, with blooms lasting three and sometimes four days. It takes the wind and rain and therefore doesn't need to be staked.

This iris won the Charles H. Lewis Memorial Award from the Greater Kansas City Iris Society for the most popular seedling in the Region 18 Test Garden in 1966. It may be seen at Denver in the following gardens:

Denver Botanic Garden	Denver, Colo.
Long's Garden	Boulder, Colo.
Dr. P. A. Loomis Garden	Colorado Springs, Colo.
Dr. R. W. Adams Garden	Colorado Springs, Colo.
John Hartman Garden	Arvada, Colo.
No catalog. Give desired shipping date.	\$25.00

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Iris Official Flower of Lockport

MARY P. ENGEL



Mayor Rollin T. Grant; Alfred T. Wirz, Leader Southwestern Area ESIS; Mrs. John Blackley, Co-chairman; Lawrence P. Martin, Parks Sup't.; John Blackley, Co-chairman.



Back Row (from left to right): Mrs. L. R. Martin, Mrs. John Blackley, Mrs. Donald Amidieh, John Blackley, Mrs. E. B. Daum, Miss Mary Pat Engel, G. H. Wagner, Mayor Rollin, Albert Ellis, Mrs. Albert Ellis, E. Freeman Yendall, Earl B. Daum. Front Row: L. P. Martin, A. T. Wirz, Mrs. G. H. Wagner, Mrs. E. F. Yendall.

The iris is the official flower of Lockport, New York; a fact discovered by Mr. and Mrs. John Blackley when Sup't. of Streets, Ralph C. Loomis, was visiting their iris gardens. Right then and there the Blackleys decided to do something about it. Soon the Common Council authorized the use of a plot for the Niagara Southwestern Area of ESIS. The local organization quickly agreed to donate irises so that a total of 200 irises would be ready for spring display. Many of these were selected from the list of newer irises.

The dedication was held Sunday afternoon, September 11, 1966. Here the group saw four wedge shaped beds encircled by a large narrow bed. A second circle is to be added later.

One of the features of the dinner, which followed the formal dedication ceremony, was the use of the Yendall's colorful Irish linen iris table cloth on the table for the dignitaries. Other tables were set with stylized golden iris paper table cloths, with cups, dishes and napkins to match.

GEORGE A. SHOOP, HYBRIDIZER

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PORLAND, OREGON 97211

BEHOLD (Shoop '67). EM. 36". A large neglecta with a *red* beard. A full flower with pale blue standards and velvet grape-purple falls. Well-branched. Fine grower. Involving 57-11 series tangerine bearded blues, WHOLE CLOTH x red bearded amoena lines. Sdlg. 62-19. \$25.00

GYPSY RINGS (Shoop '67). EM. 36". A flaring ruffled flower with pink standards, and white falls with one-fourth inch yellow rim, and a pink-tangerine beard to add to its feminine charm. Well-branched. Fine grower. GAY WHISPER X 59-6-1. Sdlg. 63-18-1. \$25.00

MAY DANCER (Shoop '67). ML. 36". Another approach to deep pink. A clear rose-pink self; beard same. Broad flaring form. An advancement in the pink color class. Well-branched. Fine grower. HC 1965. Sdlg. 59-10. B56-35 X 57-6. \$25.00

All three irises above \$60.00

OLÉ (Shoop '66). EM 36". Deep orange with beautiful form. Branching is perfect. Fine grower. \$20.00

INTRODUCING THREE CREATIONS FROM MINNESOTA

PINK WHISTLE (L. R. Smith). TB. 32". Very clear non-fading pale pink, ruffled and flaring. The beard and huge ruffled stylearms are a darker shade of pink. Falls are so broad they touch each other. Heavy, durable substance. Strong well-branched stalks. \$20.00

MINNESOTA GLITTERS (Bakke-Messer) TB. 28". A bright, fresh shade of glittering intense apricot overlaid with a flush of pink. Touch of gold in the throat. Deeply ruffled. Dark tangerine beard. Excellent substance. A good grower and increaser. \$20.00

GLENZULA (Bakke-Messer). BB. 24". Large flowered border iris in iridescent light tan with a peach cast, deepening at the edges. Broad, flaring falls lightly marked at shoulders in brown-tan, blending to ivory below the light orange beard. All petals and the enormous stylearms are heavily laced, a trait that appears in its seedlings. Named for us, Glenn and Zula Hanson. \$15.00

RIVERDALE IRIS GARDENS

7124 RIVERDALE ROAD, MINNEAPOLIS, MINNESOTA 55430



BLUE HORIZONS

Painted by Mary K. Dugan,
Columbia, South Carolina
Irisarian and Artist

Irises inspiring the painting:
BLUE SAPPHIRE, PACIFIC PANORAMA,
BISCAY BAY and SYMPHONY

Deborah Rundlett and DEBORAH R.

IRIS CLINIC

From Melba Hamblen: As far as possible, in the late fall I drench plants with a Terraclor/Natriphene solution, hill up soil around each plant, and mulch with evergreen branches plants which I especially want to see in bloom the following spring. Of course, it isn't possible to do all of these things to the entire planting, but display beds and especially guest irises receive the full treatment. Things of lesser importance have soil hilled up around them. Seedlings receive no extra care, inasmuch as I believe that they should be tested as thoroughly as possible while they still are seedlings. Preventive measures are practiced at other times, such as dusting plants with Terraclor before planting and using gypsum when planting, etc. Actually, I don't do anything that I haven't learned via the BULLETIN or from catalog "cultural tips."

Bob Young writes that he is experimenting with a non-poisonous insecticide, a product made from the diatomaceous earth such as is mined in the Lompoc area. The belief is that the "dust" is non-harmful to human and other warm-blooded animals, but is lethal to insects. If this one works, it surely will be a boon.

Mrs. Paul Hatcher writes that the soil in part of her W-shaped border was particularly difficult to deal with, and that she got little bloom in the area. She applied Sea-Born, placed excelsior over the crowns, and applied barnyard manure over all in a generous supply for mulch. When she removed the excelsior in the spring, she found that it had kept the mulch from smothering the crowns, and there was no loss nor evidence of rot or heaving. The fertilizer was forked into the soil surrounding the plants, and two more spray applications were made. The plants gave abundant growth and bloomed equal to the rest of the garden. She is convinced that this treatment plus generous application of water licked the problem of her trouble spot.

G. B. Gable writes that Carco-X no longer is being manufactured, but that he believes that Terraclor 75% is as effective for stopping soft rot, and that he thinks that it is the best product he has used for the control of crown rot (mustard seed fungus). He uses one heaping tablespoonful of Terraclor 75% to one gallon of water, and stirs. After scraping the soft rot out of the rhizome, he saturates both the rhizome and the soil around it with the solution.

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Tall Bearded Iris Introductions*

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MARSHMALLOW (M. Olson '67)

IN MEMORIAM

ROSWELL HILL JOHNSON

October 9, 1877-January 17, 1967

Roswell wrote the following lines for a family Thanksgiving gathering. Since they convey his love of life, his family would like to share them with his friends at this time.

ALIVE

We are happy that we are moving, living beings;
that we do not quickly run down, but renew ourselves by eating
pleasantly and by refreshing sleep;
that when we are hurt, we generally heal;
that when we are ready we have the solace of sleep;
that we have eyes with which to see the lovely colors of the
flowers and the sunsets;
that we have ears to hear the wind in the trees, the crash of the
surf, the songs of the birds, and loving words;
that we have the feel of the water through which we swim,
and the touch of a soft cheek;
that we have the fragrance of the rose and the narcissus;
that we can feel the pleasure of exerting our muscles in play;
that we have companionship, and its ultimate development, love;
that we have the wonder of writing and printing by means of
which we relate ourselves to the great thinkers of the past;
that we are earnestly striving, through a brotherhood of peoples
to extinguish war and conquest and to extend aid to needy
nations;
that we have the ideal of furthering human welfare as our great
goal;
that we have intelligence with which we develop new ways to
further welfare.

HOMER E. SCRUGGS

Mr. Homer E. Scruggs, president of the Marshall County Iris Society, passed away on February 19, 1967, at the age of sixty-eight. He was an expert horticulturalist, and his love for irises and his expert knowledge in their culture aided greatly in creating interest in irises throughout the area. His beautifully landscaped grounds with many beds of well-kept irises was a treat never to be forgotten. He is survived by his wife, one son, one daughter and three grandchildren.

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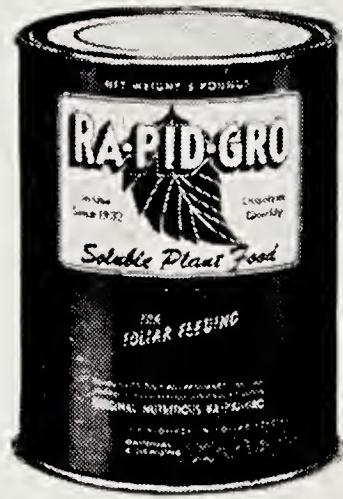
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INTRODUCTIONS

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SCIENTIFIC

Iris Pests and Their Predators

The Scientific Committee of our sister society, the American Hemerocallis Society, has prepared a set of 106 slides illustrating:

1. Pests of hemerocallis, including life cycles of the major ones.
2. Effects on the plants.
3. Pesticides and other defensive measures.
4. Predators of hem pests and their encouragement as a substitute for excessive chemical treatments.

Daylilies enjoy the reputation of being among the most trouble-free of perennial plants. So it seems reasonable to admit that we could accumulate an equally extensive set of slides for iris pests. We could profitably broaden the topic to include diseases and disorders generally. The set could thereafter be made available to all members or clubs.

This would have to be a nation-wide effort since a characteristic of iris afflictions seems to be the decidedly regional occurrence.

As a first step, will those who could loan suitable slides for copying please get in touch with me. If the response is good enough, the Scientific Committee could then ask specific regions to take extra slides to round out a good instructional set.

H. M. PARKER, *Chairman*
Scientific Committee

ANNOUNCEMENTS

All material from here to *From the Editor's Desk* is that of announcements of concern to all members of the Society and should be checked carefully for the information contained.

NOTICE

REBLOOMING IRIS ENTHUSIASTS

THERE WILL BE A MEETING
AT THE DENVER CONVENTION
WATCH FOR TIME AND PLACE

Committee named at the Memphis Convention will present tentative By-Laws for a Reblooming Iris Society.

Advance notice of your attendance will be most helpful.
Notice of your interest is also requested. Write:

Dr. Lloyd Zurbrigg, *Chairman*,
Reblooming Iris Committee
903 Tyler Avenue
Radford, Va. 24141

ATTENTION: SPURIA, ARIL, SIBERIAN, JAPANESE ENTHUSIASTS

MEETINGS AT THE DENVER CONVENTION

Tuesday, May 30

SPURIA	7:00 P.M. to 9:00 P.M.
ARIL	9:00 P.M. to 11:00 P.M.
SIBERIAN	7:00 P.M. to 9:00 P.M.
JAPANESE	7:00 P.M. to 9:00 P.M.

GUEST IRISES AIS CONVENTION 1969 IN WISCONSIN

The Wisconsin Iris Society of Region 8, an affiliate of the American Iris Society, and the Milwaukee County Park Commission will host the 1969 national meeting of the American Iris Society. We extend an invitation to hybridizers to send their late introductions and new choice seedlings worthy of registration and introduction for participation in the "GALA PRESENTATION" in the renowned Alfred L. Boerner Botanical Gardens of Whitnall Park, and in six additional guest gardens. Twenty-one beds especially prepared to accommodate over 2000 plantings in the Botanical Gardens await the arrival of these irises. The location of this display enables all plants to have the opportunity to speak for themselves, for all will be subjected to identical growing conditions and similar professional care. In these gardens there shall be a planting of every guest iris sent.

In the best interest of the hybridizer and his or her irises the following procedures are to be recognized:

1. Because of the central planting all guest irises must be sent to the GUEST IRIS CHAIRMAN, MRS. JACK KIMBER, c/o 400 E. Van NORMAN AVE., MILWAUKEE, WIS., 53207. Irises sent to other destinations will not be recognized.

2. Guest irises will be received from June 15 to September 15, 1967. Shipments will be permitted in 1968, but these must be sent early to make sufficient growth that the hybridizer will not be disappointed at convention time because of lack of bloom. Kindly notify guest iris chairman of your intent to send iris in 1968 before shipment.

3. The following data should accompany each rhizome: hybridizer's name, name or number of seedling, description as to type, height color, season.

4. All packages must be sent prepaid. Consult your local agricultural agent for necessary shipping permits.

5. All guest irises shall remain the property of the hybridizer, and will be returned or disposed of as authorized. Failure to notify as to disposition of iris immediately after the convention will be interpreted as an order to destroy or dispose of stock in question. Irises requested returned will be sent prepaid.

6. Every effort will be extended to give guest irises the best possible care; however, the host gardens, the Wisconsin Iris Society and/or the Milwaukee County Park Commission cannot be responsible for any losses beyond their control.

7. Foreign Guests—We shall be pleased to receive irises from foreign hybridizers, and such irises will receive the same careful attention; however, due to expense and regulations involved, stock would not be returned. Representative plantings will be retained at the Botanical Gardens, and additional stock will be sent to addresses within this country as directed by the sender.

Send all rhizomes, correspondence, and questions relative to guest irises to:

Mrs. Jack Kimber, *Guest Iris Chairman*
c/o 400 E. Van Norman Ave.
Milwaukee, Wisconsin 53207

**For "GEMÜETLICHKEIT IN IRIS TIME—
SEE YOU IN MILWAUKEE IN '69"**

REGION 6 MEETING

The annual spring meeting of Region 6 will be held the weekend of May 26-28. An informal buffet and slide program will open the meeting on Friday evening for early arrivals. A bus trip to iris gardens within a thirty mile radius of Muncie is planned for Saturday. The Saturday evening banquet will be held at the Roberts-Van Orman Hotel, Muncie, Indiana, the general headquarters of the meeting. An iris exhibit will be staged there. A car caravan for Sunday morning will end within easy driving distance of Emma Cook's garden, and guests are invited to visit here before starting their homeward journey. The \$10.00 registration fee will include the Friday buffet, Saturday breakfast, lunch and banquet, the bus tour and Sunday morning brunch. Reservations may be made with Mrs. Adda Ayres, North Spencer St., Redkey, Indiana.

MEMBERS OF REGION 12

Extend a cordial invitation to friends and neighbors to attend our annual Region Convention May 27 and 28.

SPECIAL ATTRACTION will be a Judging School conducted by the *one and only* Wm. T. (Bill) Bledsoe from Fayetteville, Tenn. As 2nd VP of AIS, Chairman of the Exhibitions Committee and Chairman of the Committee for revision of the AIS Judges Handbook, Bill needs no introduction and he is, indeed, without peer in all aspects of Judges Training.

Timing is perfect for Denver-bound iris-addicts who plan to visit Utah gardens prior to the National Convention.

A session on Exhibition Judging will be held Saturday afternoon (May 27) at the State Capitol building (Salt Lake City) in conjunction with the Utah Iris Society Show.

The following morning, at the Hamblen gardens in Roy, Mr. Bledsoe will give instructions on the finer points of Garden Judging.

A nominal fee of \$5.00 will cover Registration for the Judging School and Saturday evening's Banquet. For further details please contact: Mrs. Merrill S. Johnson, 2275 Kensington Ave., Salt Lake City, 84103 or Mrs. Clifford Lee, 5529 South, 2700 West, Roy, 84067.

REGION 17 MEETING AND JUDGING SCHOOL

May 6, 7. Region 17 (Texas) annual meeting at Lubbock Garden and Arts Center, 4215 College Ave., Lubbock, Texas. Judging School to be conducted by William T. Bledsoe. Garden tours; iris show. Host group, South Plains Iris Society.

REGION 21

Region 21 Judging School and Gardens Tour Saturday and Sunday May 27 and 28. On your way to the National in Denver, you are invited to stop in Omaha, Nebr., and join with our meeting and tour. Headquarters are in the Prom Town House Motor Inn, 7000 Dodge St. Judging program at 9:00 a.m. Saturday; tour Saturday afternoon; dinner at 6:30 p.m., Saturday evening, with national speakers. Sunday morning: coffee and rolls at the Redman garden; noon lunch at the Schliefert garden. Cost of tour, Saturday dinner, Sunday breakfast and Sunday lunch: \$6.00 (after May 15 \$8.00.) We will mail you a map of Omaha showing garden locations when you make your tour reservations, with G. E. Redman, 8308 Oakwood St. Ralston, Nebr. 68127. Reserve directly with Prom Town House for rooms.

REGION 22

The Oklahoma Iris Society will host Region 22 in a three-day meeting on May 5, 6 and 7. The meeting will begin at 7:00 p.m. with an informal reception at the Garden Center, 3400 NW 36th St., Oklahoma City. The entertainment will include a slide show of recent introductions, a talk and a demonstration on arranging, a panel discussion on hybridizing and some short talks on some of the species.

Saturday's events include a bus tour of some of the gardens, the opening of the iris show, a meeting of the members of Region 22 and other AIS guests, and an awards dinner. Sunday: coffee and doughnuts at the Garden Center, followed by a full day of gardens and show. All iris enthusiasts are welcome.

NEW LIFE MEMBERS

Mr. Gordon Blackwell, 377 Marbledale Road, Tuckahoe, New York 10707.

Mr. G. H. Hale, 6 Fourth Ave., IW., New South Wales, Australia.

Mr. Raymond G. Smith, 3821 Sugar Lane, Bloomington, Indiana 47401.

The Treasurer of AIS is in receipt of a check of \$100.00 as a start to a fund to help cover the expenses of our foreign dignitaries at the 1970 New York convention and symposium. This check comes from Region 22, and is accepted with sincere thanks from those who are working on this project. Helen McCaughey is spearheading this important drive.

Dr. Hugo Wall has been chosen as the 1971 National Convention Chairman. Related committee chairmen also have been selected. The convention dates are Wednesday, May 12, 1971 through Saturday, May 15, 1971.

The early Wichita show to be held on April 30 will be held at the Aley Park Recreational Building at 1803 S. Seneca, instead of site announced in April Bulletin.

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

For that additional program fill-out the following sets are offered:

- ... Set of the newer tall bearded irises, including many of the recent award winners—top favorites—and selected garden scenes.
- ... Set of various bearded species and hybrids, other than tall bearded, including standard dwarf, intermediate, table, and border bearded types, and some very special slides of the arils in various types.
- ... Set of various bulbous irises including reticulatas and juno irises. Also many species and hybrids of the beardless family including: Crested, Louisiana, Western natives, Spurias (including some of the most recent spurias just out), Siberians, and Japanese.
- ... Set of the ever popular, less expensive, fine bearded irises that have stood the test of time and grace any garden with their beauty and excellence.
- ... Set of irises at the AIS convention in Newark 1966. For those who could not go to Denver here is a picturization on film of many, many of the very newest irises. See them in the comforts of your own meeting room. Yes, you'll see new irises, gardens, and intimate glimpses of some of the iris personalities who attended the Newark convention.

Requests for slides should be made well in advance for proper scheduling, preferably 30 days or longer. Include a second date if possible. Give the exact date desired so that slides can be sent insured airmail. They are to be returned in the same manner. The rental fee is \$5.00, payable in advance, for each set of 100 slides. Make checks to the American Iris Society and mail with your receipts to:

ROBERT SCHREINER, Chairman, Slides Committee,
Route 2, Box 301, Salem, Oregon, 97303.

BULLETIN ADVERTISING RATES

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Single space (one inch—not to exceed six lines)	\$10.00
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One page	60.00

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THE AMERICAN IRIS SOCIETY
2237 Tower Grove Blvd., St. Louis, Missouri 63110

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Family Triennial	15.00	Family Life	125.00

SECTION DUES

	<i>Japanese</i>	<i>Median</i>	<i>Siberian</i>	<i>Spuria</i>
Single Annual	\$2.00	\$2.00	\$1.00	\$1.00
Single Triennial	5.00	5.00	3.00	2.50
Family Annual	2.50	2.50		1.50
Family Triennial	6.00	6.00		3.50
Annual Supporting	3.00	3.00		3.00

IMPORTANT: Section dues, if paid through AIS, MUST be for the same duration as your AIS dues. AIS FAMILY member desiring SINGLE Section membership, PLEASE indicate which person is applying for Section membership.

HOW TO JOIN AN AIS ROBIN

Applications for Tall Bearded Robins should be sent to the National Program Director. For membership in other divisions, application may go to the National Program Director (advising which division you wish to join) or to the chairman of the Division in which you wish to enroll. The Irises in General, General Hybridizing and General Medians Divisions are recommended for fairly new irisarians wishing to gain broad general background on those topics. Regional Robin applications may be sent to your own Regional robin representative, the National Director or the division chairman. For names and addresses of National Robin Program personnel please refer to the directory of FLIGHT LINES on the second page.

SHOWS

Marshall County Iris Society, Carlisle Park School, Guntersville, Ala., April 30.

Sydney B. Mitchell Iris Society, Lakeside Garden Center, Oakland, Calif. May 6-7.

Redwood Iris Society, Floriculture Bldg., Fair Grounds, Ukiah, Calif. May 7.

Liberal Garden Club, Liberal, Kansas, May 13.

Tri-Town Men's Garden Club, May 27, Hunter Greenhouse and Flower Shop, 16153 Eureka Road, Southgate, Michigan.

Jackson Iris Society, Deposit Guaranty National Bank, Jackson, Miss., April 22-23.

Tri-State Iris Society, Joplin, Mo., May 13-14.

Dawson County Iris Society, Junior High Auditorium, Lexington, Nebr., May 25.

Yucca Garden Club Iris Show, Woman Civic Club Bldg., Hobbs, N.M., May 4.

Three Islands Area Empire State Iris Society, Christ Church Parish Hall, Oyster Bay, L.I., N.Y., May 27.

Cimmaron Valley Iris Society, University Shopping Center, Stillwater, Okla., May 6.

Edmond Iris Society, First Baptist Church, Edmond, Okla., May 2.

North Central Iris Society, OG & E Bldg., Enid, Okla., May 6.

North West Iris Society, Community Bldg., Woodward, Okla., May 13-14.

Oklahoma Iris Society, Garden Center Exhibition Bldg., Oklahoma City, Okla., May 6-7.

Quartz Mountain Iris Society, Quartz Mt. Lodge, near Altus, Okla., May 2.

Tulsa Area Iris Society, Garden Center, Tulsa, Okla., May 6-7.

Greater Portland Iris Society, Westmoreland Union Manor, Portland, Oregon, May 21, 1967.

Rainbow Iris Society, Commercial Security Bank, Ogden, Utah, May 20-21.

Utah Iris Society, State Capitol Building, Salt Lake City, Utah, May 27-28.

From the Editor's Desk

Things can get a little "sticky" around this office at times. Under the pressure of getting the ballots prepared before Kay left for Oklahoma City, some not-too-pressing items were set aside, and on January 22 set to work on them with a vengeance. Monday morning we mailed out fifty-three pieces of correspondence, including several parcels of work for Kay. But am glad that the hectic, almost never-ending checking job of preparing the ballots is done.

We note, when we check back, that Georgia Hinkle should have been credited with five AM's, and that she has won five Firenze awards.

Was impressed with the stick-to-business attitude of the Board at the Denver meeting. Such devotion to duty is a rare attribute and a worthy one. When one thinks that these board members are out from \$300 to \$1,000 a year to serve on the Board, one has to recognize a loyalty to the cause. But I was almost reminded of that old adage in education: that the mind can absorb only what the seat can bear.

Just out of curiosity, we began to wonder just how much correspondence does traffic across this desk. It is nothing uncommon to have forty pieces of mail leave during the weekend, and ordinarily about ten pieces every weekday. So we set aside fifteen dollars in postage in a special compartment to be used for correspondence, on February 1; and on February 19 about thirteen dollars of it had been used. The bulk of this, of course, is with BULLETIN business and with registrations and introductions; but often inquiries come here which are fundamentally in the jurisdiction of other AIS departments. Even after

more than two years of being away from anything to do with the Exhibition Committee, orders for show supplies still arrive here.

Now faced with the third increase in printing costs since we assumed the editorship of the BULLETIN, it becomes incumbent on us to analyze use of space to the best advantage. Some institutional items probably will appear but once a year, with a reference each time as to which particular issue for the year in which they can be found; and we are experimenting with the idea of these standard items appearing in the *Registrations and Introductions* booklet, and retitling this booklet to show its more comprehensive coverage.

We want to give every kind of service we can to the membership, but eliminate that which is not productive of results. For example, we are carrying a list of shows which has been furnished to us, and we hope that the show chairmen can furnish us some evidence that this kind of listing does bring visitors who otherwise would not be at the shows. If it does not produce these results, we should eliminate this feature; if it does produce results, we should continue it.

Just as we finish the pages of the April BULLETIN we have learned of the sudden death of Bob Young. To those of us who knew him so very well it seems impossible to believe that his sunny enthusiasm is gone. To those of us who knew him so very well he was a friend with a heart as big as the universe.

Too late to include with the announcements comes the word of the four-day celebration of the fortieth anniversary of the Presby Memorial Gardens of Montclair, New Jersey. The Town Commissioners, the Garden Club of Montclair and the Citizen's Committee have set aside May 30 to June 4 as a town-wide Iris Celebration, culminating on June 4 with a big gathering in the iris gardens of John Wister, the speaker of the occasion, who also was the speaker at the dedicatory occasion forty years ago.

Elsewhere in this issue will be found the guidelines of the Judges' Training sessions. It does seem to us that this is one of the most exciting steps forward we have made, and the two chairmen of the committees involved are to be commended for the hours of deliberation involved in the preparation of this program. We are sure that no one expects that this is the final word, and the program may be amended in the light of practical experience, but it is a long step forward.

We note with interest the plans of the Milwaukee group to stage an iris art exhibit in conjunction with the convention in that city in 1969. This ought to be of real interest to our artist minded members.

Our congratulations and best wishes to the newly formed Japan Iris Society. Elsewhere in this issue the President has extended the official best wishes of The American Iris Society.

At last, but too late to include for reviews in the April issue, we have been able to get copies of Mollie Price's *The Iris Book* and Winfred Ross' *Iris: Goddess of the Rainbow*. These appear to be fascinating books, and we will abstract from the reviews that we have on hand material for reviews for the July BULLETIN.

The problems of assembling in the final stages a BULLETIN always are interesting, and frustrating. Kay reads one set of proofs at Bethany, and I read another here. I assemble the pages here and mail them to her as I get done, and then she checks my proofreading against hers. One of the really aggravating items is those little bits of pieces of paper, and there can be a

lot of them in a BULLETIN, that remain at the end, and the search for the proper places. At the end of this BULLETIN, I found a 1967 and an address, and the hunt to fit these little items into the niche where they belong can make one's hair stand right straight on end.

As a final check I either travel to Bethany or Kay comes to Omaha, and we give the issue a final proofreading.

Then there always is the copy that does not come in on time. We had carefully measured for a ninety-six page issue this time, and found to our consternation that two of the articles we had depended on had not arrived. There is no help for it now; the issue will have to go to the printers as is, or be late.

We especially want to ask introducers to send to us proof of their introductions. We try to acknowledge these, so that the introducers know that we have received the proof. But unless someone sends to us the printed proof of introduction, we have no way of knowing that an iris has been introduced, and so long as we do not have the proof in the files, the iris is not eligible for any award above HC. We do want to give you the kind of service you are entitled to, but we do need your help in forwarding to us evidence of introduction. The irises introduced on the pages of the BULLETIN automatically are listed in the files as having been introduced.

As we get the final pages assembled from the printer's proofs, there always is a half-page or so of space that we need to write in order to fill out the BULLETIN. And here we find ourselves on March 15. . . . Note that Orville Fay is the guest speaker and has a reception in his honor at Horticultural Hall in Worcester. . . . Also note that Bill Bledsoe is busy as the guest lecturer at a number of judging schools this spring. . . . The new R.H.S. Colour Chart seems to be an excellent improvement over the old chart. The bulk has been reduced to four books of fans, and the tints, shades and tones of all colors have been included. The numbering system has been changed, which may make it easier for the amateur to work with. One of the changes we especially welcome is the inclusion of purple (red-violet) as a color, and that we welcome, despite the fact that there are long hours of work ahead in the revision of our color classification. . . . Proposals are in the making to more sharply define the standards of each of the median classes. . . . March weather in Nebraska is a theme for the philosophers; above seventy one day, down to zero two days later. The standard wise saw is that it takes a man to live in this gateway to the West. . . . It appears as if your editor will be a bachelor during May and June; Irene has taken on a lecture and teaching tour from Alabama to Montana. . . . As we write 30 to this, we are conscious of the fact, that despite the blustery conditions outside here today, irises will be in bloom in southern states by the time this BULLETIN arrives; and shortly after that the official ballots will start to stream in, and the hectic days of tabulation will begin. . . .

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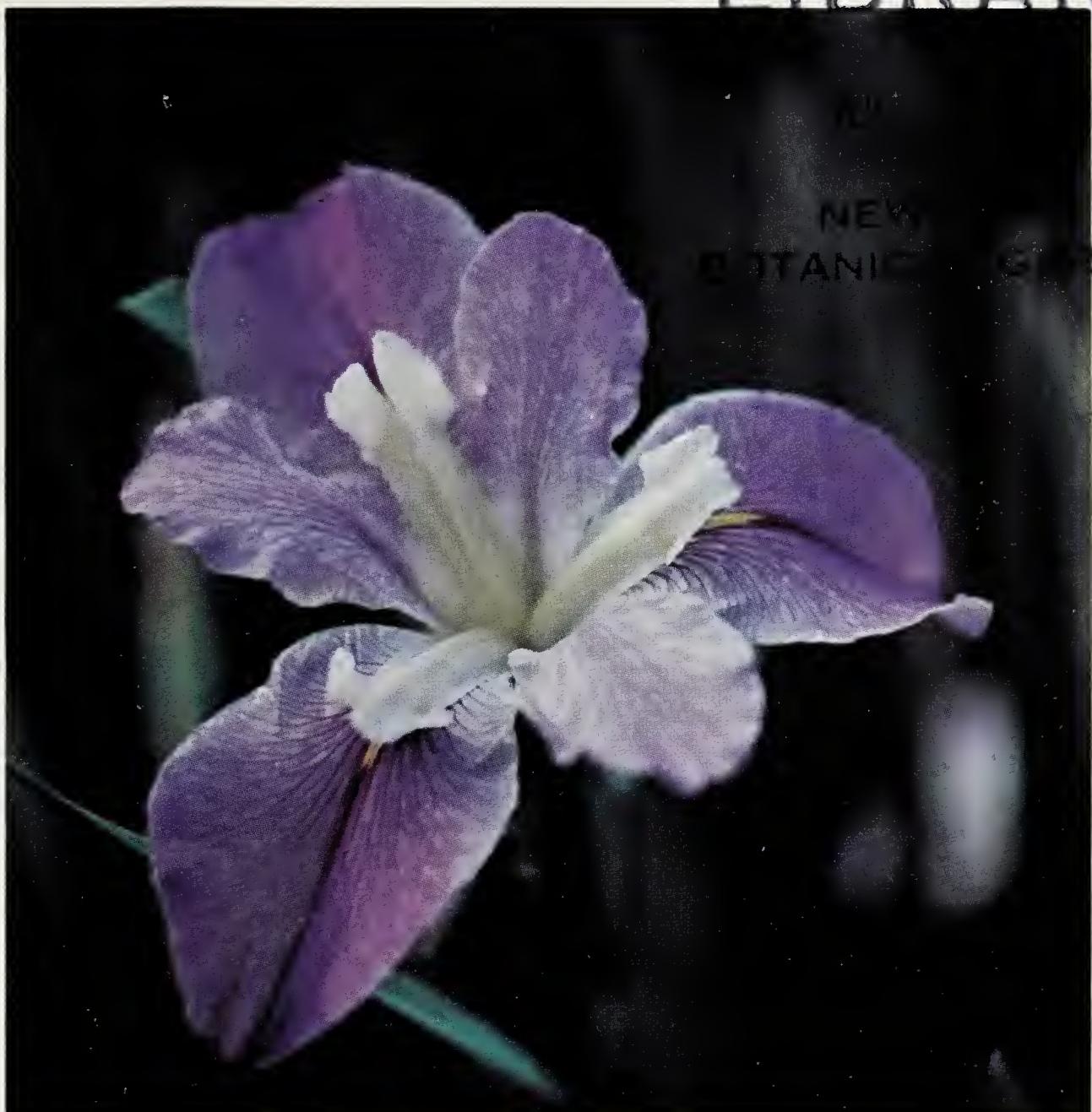
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NUMBER 186

JULY 1967

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until August 1 to cast their ballots. Write the
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THE BULLETIN *of the* AMERICAN IRIS SOCIETY

NO. 186

JULY 1967

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3131 North 58th St., Omaha, Nebr. 68104

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The *Bulletin* is published quarterly by The American Iris Society. Publishing office 2315, Tower Grove Blvd., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2315 Tower Grove Blvd., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see page 3.

The *Bulletin* is printed by The Williams Printing Company, Nashville, Tenn.

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TOMBIGBEE VALLEY IRIS SOCIETY, *Pres.*, Mrs. Felder Josey, Starkville, Miss.
GREATER KANSAS CITY IRIS SOCIETY, *Pres.*, Herman J. Selle, Kansas City, Mo.
JEFF-CO. IRIS SOCIETY, *Pres.*, J. J. DeMuth, DeSoto, Mo.
MINERAL AREA IRIS SOCIETY, *Pres.*, Mr. L. F. Freeman, Farmington, Mo.
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IRIS SOCIETY OF NEW JERSEY, *Pres.*, Charles S. Gray, Montvale, N. J.
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The conditions under which a state or local iris society may become an Affiliate of AIS are—

1. Its officers and directors must be members of AIS.
2. Participation in the AIS registration and award system is required.
3. Societies having less than 50 percent of their members belonging to AIS, and meeting the other conditions, will be required to pay an *annual* fee of \$25.00.

The names of societies given Affiliate status will be published in the *AIS Bulletin*.

Inquiries and applications for affiliation should be addressed to Mr. Edward E. Varnum, 550 So. Princeton Ave., Villa Park, Ill. 60181.

To SECRETARIES OF AFFILIATES: Please report promptly the names and addresses of new presidents to the Editor as well as to Mr. Varnum.

From the President's Desk

After the rigors of the most unprecedeted snow fall ever experienced in the Chicago area we responded to an invitation to go to England and visit in Cornwall to see the spring bloom and visit gardens.

We had a delightful visit with Rev. Dudley Benbow, President of B.I.S., when he came into London to meet us for lunch and theater; and renewed the acquaintance with Harold Fletcher with whom I had judged in Florence and Hamburg. We spent an evening at his home where we met his talented wife, Peggy, and enjoyed his intimate walled garden. One day Miss Nora Scopes, who is Editor of the Bulletin for the Marcia Group of the B.I.S. and whom we also met in Florence, came to London and kindly guided us to many interesting places.

When we left home we realized that we would miss the bloom on our daffodils, many of which were new and would be flowering for the first time; but we were able to attend the fortnightly show of the Royal Horticultural Society and were more than repaid by the daffodils displayed there as well as other material.

When the time came to leave London, we were met at our hotel by Lady Carew-Pole, who is well known to the daylily growers in this country. We drove south through some of the loveliest green country one can imagine. Before leaving London, we had visited garden-writer Roy Hay in Godalming, where his garden was built around a century-old house, drove to Canterbury, visited the old smugglers village of Rye and Sissinghurst Castle in Kent, the home and garden of the late author Mrs. Sackville West XX and also visited Rochester Cathedral. On our way to Cornwall we had the pleasure of meeting and exploring the intimate gardens of author Margery Fish in Somerset, whom we knew only through her books, and that of Lionel Fortesque in Dartmoor. We drove to Knight Hayes Court in Devon where we were guests of Sir John Heathcote Amory. This garden was being extended thirty-five acres which would be devoted entirely to azaleas, rhododendron and camelias. We were amazed at the extent of the planting; and when I questioned how many acres the estate eovered, I was informed that it consisted of nine thousand.

The days at Antony House were quiet and restful, and we walked for hours along the trails between rhododendron, azaelias, camelias and magnolias, and we truly felt as though we were in another world. The house, built in 1710, has a beautiful setting with wide sweeping vistas and trails through wooded sections. The elimate is kindly; the season of growth twice that of ours.

Time was running out and we left to return to London where we boarded our plane and were back in our garden in less than eight hours. We had barely time to unpack our luggage, before we went to the airport to meet Countess Helen Von-Stein-Zeppelin, who was visiting here to meet breeders and see nurseries, as she has a large nursery in Baden, Germany. As our guest we took her to the gardens of some of the breeders here in the Chicago area, visited nurseries, and at a special meeting called by the Northern Illinois Iris Society she spoke to over sixty of our members who were present,

told us of the interest in the new American irises, daylilies, poppies and other perennials and how difficult it is to sell the more costly plants in Germany. After a week she left for the west coast to continue her visits there.

Two days later I flew to Omaha where I was invited by RVP Larry Harder of Region 21 to be present at their meeting and banquet on Saturday night. This was followed by tours and visits to gardens in the region. While we saw some fine bloom, we were hampered by rain. The following day we left for Denver by car where the rain followed us most of the way.

At Denver at the Director's meeting, business was held at a minimum, as is usual at convention meetings. All chairmen of committees made their reports, and some items of business were held over for the fall meeting in Dallas. The Board decided that the proposed International Symposium not be held in New York in 1970 as it would interfere with the 50th Anniversary plans. Other avenues are being explored and will be reported later. The question of the revision and publication of *Garden Irises* has been deferred until the fall meeting. It was voted to purchase 250 copies of the publication of the Royal Horticultural Society which features west coast irises, with eight color plates as well as black and white. The purchase was requested by Species Committee Chairman Roy Davidson, and will be available to interested members. A new Round Robin Director's Manual is under revision and will be published. The new Royal Horticultural Society color fans are available and can be had from our St. Louis office. I saw them in London and some are already in the possession of some of our members and highly recommended. The RVP-Director Breakfast meeting was well attended, and was followed later by another RVP meeting with Bill Bledsoe directing, where various problems were discussed. In order to bring about a closer cooperation, a delegate selected by the RVPs will sit in at the Director's meetings. A Reblooming Iris Society has been formed and will be a Section of AIS.

Upon returning home from England, we had the sad news of the sudden passing away of Harry Randall. It was a shock to all who knew him as he was so well acquainted in this country. His many visits here and his constant search for the best of the new irises, hemerocallis, peony and other horticultural achievements in this country has enriched English gardens. He was writing a book on irises, and I hope that it has advanced enough to be published.

For myself, the Board of Directors and all of the members of AIS I wish to extend thanks and appreciation to RVP Charles Gordon and all of the members of Region 20 for their invitation to have our convention in Denver. Having been through several conventions myself, I well know the great amount of time and planning necessary. I also know the anxiety about whether the bloom will come too early or too late, whether the guest plants will perform satisfactorily and all of the worries that go with it; but I have never had the experience of seeing the work and plans of several years of work ruined by hail in a matter of minutes. I want to thank Region 20 for their hospitality and showing us so many fine irises under most trying conditions.

On arriving home from Denver, I found the garden at peak bloom with the finest stand in many years. It has been a busy spring.

HUBERT A. FISCHER

—ORVILLE FAY—

Tools of the Artist's Trade

BEE WARBURTON AND LYNN MARKHAM

Orville Fay was educated in agriculture at the "Normal School" and began his career as a science teacher. It was during these years that he first learned of Gregor Mendel's basic law of inheritance, which as he says is still applicable today, even though most of the plants we are breeding are tetraploids rather than diploids like the peas with which Mendel carried out his experiments. He is not a scientist—rather he is a dedicated plant breeder whose genius derives from a splendid and well-trained sense of color and form, plus a basic knowledge of Mendelian inheritance and the ability to grasp and utilize any available scientific aid to the mechanics of plant-breeding. He has, in fact, a scientific adviser who is always at hand—Dr. Griesbach of DePauw University, a foremost breeder of gladiolus, who advises him on cytogenetics and does the necessary work with microscopes.

Mr. Fay's early life was full of leads to his plant-breeding success, among them his life on a farm, his training as a science teacher, and his eighteen years compounding colors and flavors for the Nutrine Candy Company. This last tended to intensify his keen awareness of the subtle differences between colors and the properties of both color and texture that are appealing to the eye.

In 1930 he and his wife Frances settled in a small house in Wilmette, Illinois, and his gardening experience began. He wanted to breed perennial plants, and planted a variety of types to see what would be happiest in the rich native soil. Gradually, the irises took over. At this time, 90% of the available garden varieties were diploid, but he went to great lengths to acquire some of the newer and larger tetraploids and became deeply involved in the transition of garden irises from $2n$ to $4n$. By 1940, the proportions had been reversed and only 10% of the garden irises were diploid.

Ruffling in TB irises originated with SNOW FLURRY, an unusual plant from Clara Rees' cross of the tetraploid PURISSIMA and the diploid THAIS. Mr. Fay became intensely interested in this plant upon reading its pedigree in the registrations, and since his friend Junius P. Fishburn was to be traveling to California at that time, he asked him to try to see the plant and answer some vital questions about it: was it fertile, and therefore a tetraploid? did it have the papery bud-spathes and the glaucous blue-green foliage of *I. pallida*? did it have three buds in each bud-socket? The answers he received convinced him that it was a true product of this unusual cross and that it was indeed a tetraploid, arising from an unreduced gamete of the diploid THAIS, rather than the triploid which might ordinarily have been expected from a cross of this kind. The latter would have been highly sterile and of little use in breeding. He acquired the plant and from it soon produced NEW SNOW (SNOW FLURRY \times KATHERINE FAY) and DESERT SONG (SNOW FLURRY \times GOLDEN EAGLE), which even today are classics. He considers SNOW FLURRY the greatest breeder of all time, and its offspring are liberally sprinkled throughout the pedigrees of the Fay irises.



(Left to right): Dr. Robert Griesbach, Esther Fay Carter (for whom ESTHER FAY is named), Harry Randall, Margaret Gaskill, and Orville Fay.

SNOW FLURRY's glaucous blue-green foliage was highly resistant both to leafspot and to virus infection, possibly because of its wax-like protective coating, and he was able to combine this with the new tangerine pink irises, thus almost eliminating the virus problem that had plagued the early pinks. SNOW FLURRY itself was somewhat tender, due to the involvement of *I. mesopotamica* in the pedigree of PURISSIMA, but by crossing it with hardy northern varieties and letting Nature do the selecting for vigor, he managed to breed plants that were not only winter-hardy, but also well suited to the more southern climate where SNOW FLURRY was born. He also managed to get his flowers displayed on strong but graceful s-curved stems, by continued selection for this combination. The lovely pink ESTHER FAY epitomizes this feature.

In the late 1940's Mr. Fay produced the famous TRULY YOURS, and a year later came MARY RANDALL. Both of these were to go on to win the coveted Dykes Medal. Since that time there has been a parade of AIS awards for the Fay irises, culminating in 1966 with his third Dykes, for the lovely blue-orchid RIPPLING WATERS. Among his projects have been the improvement of the black irises (BLACK SWAN), some of the first red-bearded whites (ARCTIC FLAME), the red-bearded blue-orchids (RIPPLING WATERS), and the pure orange tones (ORANGE CHARIOT and FLAMING DRAGON).

In working with the pinks and SNOW FLURRY to produce the red-bearded whites and later blue-orchids, Mr. Fay discovered that there were dwarfing factors in these lines. Lately, other irisarians have discovered this too, and

are capitalizing on it to produce improved border iris types. With some amusement, Mr. Fay tells of his trials and tribulations in trying to breed out this "nuisance" which manifests itself in all possible combinations from very tiny, well-proportioned border irises to such annoying things as big flowers on short stems and tiny flowers on tall ones. He was not, as he says, "hunting rabbits," so the diminutive plants, however charming, were of little interest to him. However, he believes that all sizes from very dwarf to very tall may be had at the tetraploid level by careful selection, just as they are with gladiolus. Dr. Griesbach grows 20,000 gladiolus seedlings per year on the Fay property. They are all tetraploids of 60 chromosomes, yet their sizes range from the smallest miniatures to the super-giants, all in perfect proportion.

Mr. Fay had long been interested in the potential of the daylily, which he considered a nearly wild plant much in need of "taming." He watched with interest Dr. Kraus' work with this plant, and when the pink Evelyn Claar was produced became interested in breeding hems himself. Evelyn Claar had better finish and the shorter stem which he deemed desirable for the proper garden effect. It also had long fibrous roots instead of the usual fat storage roots, which meant to him that it would put its energy into bloom and growth instead of going into a resting period after blooming. He immediately crossed it with one of the tender evergreen types, and then backcrossed to Evelyn Claar to produce a hem which would be happy in a wider climatic range. From these original crosses evolved his long line of superior diploid hems, culminating in Frances Fay (Stout Medal 1964) and Cartwheels (Stout Medal 1966).

Dr. Kraus himself grew over a million seedlings in his work, always looking for the elusive white mutant, which never appeared. There is still no white daylily. But in the process he uncovered the melon color, which is itself a recessive which behaves in breeding like the tangerine pink color in irises, except that it does become visible at the diploid level. The earliest of these melons were Ruth Lehman and Multnomah. Mr. Fay feels that where one mutation has occurred, others are more likely to appear than where the genetic material has proved to be quite stable, and he is hopeful that from the melon lines, which have now been raised to the tetraploid level, a recessive white mutant will someday appear as it has in other plants and even in animals, such as the white gorilla, Snowflake. In irises, such a mutation is illustrated by the blue and white chimaera "Good and Plenty" which bloomed in the Fay garden 20 years ago. This plant had blue flowers on one side and white on the other side of its maiden stem, with the terminal flower part blue and part white, and it produced increase with blue flowers from one side of the plant and increase with white flowers from the other. Mr. Fay still grows both clones of this interesting aberration.

Mr. Fay has done a great deal of work and study on high polyploidy in many plants to determine their optimum level. The chromosomes of nearly all plants can be doubled by the use of colchicine. This drug had long been used in the treatment of gout and related diseases, but its use as a spindle poison to double the chromosomes of plants was discovered in 1936. The famous Fay octoploid irises were created in this manner to discover whether octoploidy, or more likely hexaploidy, was the optimum level for irises, but the octoploids proved to be stunted plants and moreover sterile with the

tetraploids, so that the hexaploids were not forthcoming, and it became quite evident that tetraploidy is ideal in irises, as it has also proved to be in *hemerocallis*. This is not true in many other plants—primroses are best at the hexaploid level, as are chrysanthemums. The latter can be had at all levels up to 10n, with the exception of the 5n, or pentaploid. However, at higher than the hexaploid level they break up into wild and uncontrollable segregations of all forms and colors. Hexaploidy is also ideal for wheat. In many genera, such as pineapples and sugar beets, triploids are desirable because of their seedlessness, but this is certainly not what the breeder of ornamental plants requires.

Peonies proved to be a somewhat different problem. There are thirty-nine peony species, of which twenty-six are diploid and thirteen are tetraploid, all with a base number of five. Triploids from diploid \times tetraploid crosses are fine plants but highly sterile, and the tetraploid level is actually optimum. Diploid peonies, however, refused to double even when the concentration of the colchicine solution was increased to ten times that necessary for irises and *hemerocallis*. As Mr. Fay says, the peony is one of our most ancient perennials, having been around for 90 million years, and like many another venerable individual, is highly resistant to change.

Like the TB irises, the tetraploid hems with which Mr. Fay is working have four balanced sets of chromosomes. No tetraploid hem species has been found, and the two triploids discovered in Thailand appear to have evolved directly from the diploid species, rather than from any diploid \times tetraploid cross. Mr. Fay believes that *hemerocallis* are actually all one species, the different forms found in nature being comparable to the races of *homo sapiens*, and the chromosome composition being quite constant throughout the species.

A number of techniques have been worked out for treating plants with colchicine, either in the seedling stage or as a clonal treatment, many of them by Mr. Fay himself, who has actually treated many thousands of emerging seedlings and adult clones in various genera. Chromosome doubling with colchicine is accomplished by paralyzing the spindle formation so that reduction division does not occur. The subsequent problem of sterility in induced tetraploids is due to the persistence of this damage to the spindle formation, but the effect diminishes with advanced generations so that complete fertility is eventually regained. For the first five years, Mr. Fay made pollinations for four hours each day, seven days a week, for six weeks each year, in order to get enough viable seed to produce another generation. Such determination is necessary in attempting to pod the early generation tetraploids, but as Dr. Griesbach states, once a pod has been set, the plant produces a hormone which makes further sets possible, and indeed even Crestwood Ann will produce seed when the plant is established and the breeder persists in pollinating every flower. At this writing, Mr. Fay has recovered sufficient fertility in his tetraploids that he is able to bloom 1,000 seedlings per year. The seed-setting and germination rates are almost normal.

Tetraploidy has the effect of doubling the thickness and width of petals and the thickness of the leaves of the plant. It also thickens the stem, so that the scapes stand erect instead of leaning out from the center of the plant. Further, it can be expected that hitherto unknown features will emerge at the tetraploid level as they have in irises, because of the increased variability of

tetraploids over diploids and the possibility of building up dosage effects such as we have in irises. Already Mr. Fay has among his seedlings a cherry-red color which the co-authors have never seen before in hemis, and a shirring of petal edges which is quite unlike the ruffling in the diploids. These things are genetic, and Mr. Fay feels certain that they can be intensified by further careful breeding.

Orville Fay has been asked hundreds of times "How can I become a successful plant breeder?" His first answer is always that it takes ten years. He has found that those who would put that much time into the foundations of their work would probably succeed, while those who lacked that sort of patience most assuredly would not. The novice can produce one fine plant with one good cross, but to build up a line that consistently produces fine plants takes a great deal of time and hard work.

Beyond this, there must be a vital interest in the plants themselves and their improvement, as opposed to dreams of material gain. The latter may or may not come, but must never be an end in itself.

The breeder must learn his business by studying the laws of heredity as they apply to his own field and the pedigrees of the plants he is using in his work. This will help him to know what his stock will and will not do in breeding.

He must keep very accurate records of his work, both for his own use and for the benefit of others who may one day use his plants in their own breeding, for as Mr. Fay says, a plant with no pedigree, or worse yet the wrong pedigree, is useless, however beautiful.

And finally, there must be the artistic eye for selection—"the breeder's instinct"—an elusive something that guides the hand of every really great plant breeder, even if he lacks one or more of the other qualifications.

If the list seems tremendous at first glance, consider the rewards. There are no shortcuts to excellence.

Now in his seventieth year, Mr. Fay could rest on his laurels if he chose. But "to do nothing," he says, "would be like going to jail." And so he continues to work from dawn to dusk, driven by a love for beauty and an overpowering desire to grow and improve plants.

The occasion for this survey of the cytogenetic and other theory behind Mr. Fay's triumphant progress through the world of plant breeding was a perfectly engrossing meeting on the practical and scientific aspects of modern plant breeding sponsored jointly by Region I of the AIS and Region IV of the AHS, for which Mr. Fay was the principal speaker. It was an absorbing experience to the co-authors to have some extra time with Mr. Fay, who is not only generous in sharing his knowledge, but also great fun to have along.

SCHORTMAN'S IRIS GARDENS

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Correction of ad found on page 53, April 1967 BULLETIN

BLUE FORMAL. HM '65. INDIGLOW X SIERRA SKIES. Very wide, ruffled medium beauty \$20.00

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REGIONAL TEST GARDENS

C. ROBERT MINNICK

What do we as an iris society expect, or what should we expect, from the operation of a Regional Test Garden? After operating one for several years, I still am somewhat in a quandary. Perhaps there are many who still are looking for the answer to this question.

Since this is not and cannot be a compulsory program, we can evaluate it to see what it has to offer to the isolated hybridizer, large or small. The Test Garden Program offers a place where seedlings may be grown and seen, not only by iris lovers and the public, but its location in a central place in the Region makes it available to the many judges who are expected to participate in the program. For a judge to see the same number of seedlings in a region would take many days and miles of driving, and there are few who could do this. It gives the small hybridizer a chance for his seedlings to be seen and evaluated and the judge to see them in one location. The American Iris Society Board of Directors has established the RTG Award for seedlings that are worthy, and thus adds encouragement for hybridizers to take part in the program.

There are many phases in the test garden operation that AIS members and hybridizers should be aware of. The seedlings are received for test garden planting and are grown under normal conditions and are cared for as outlined in the program; but they are not pampered. They are watered the first year to be well established for the winter ahead, and if something wrong shows up they are treated just as a garden iris. The first winter they are given normal winter protection, and after that they are on their own. Some are lost because of the winter, and others are lost for various other reasons. If they are hardy enough to make it, they are bound to be hardy for the Region. There are some plants that grow well in their home location, but are not hardy enough to grow in another.

Hybridizers should observe the type of rhizome they send for testing; they should come up to the standards they expect when they are buying an iris. It is very hard to get many established well enough in two years to get good bloom.

Now what should a hybridizer expect from a test garden. They should be able to find out the condition of their plants at the end of the first year, and then again at the end of the second year learn just how it performed. Above all, they should expect it to be judged, regardless of how it looks and has grown. Certainly there is one good trait about every plant, and the hybridizer should be given this information in the final report. Every plant in a Regional Test Garden should be judged by as many judges as can be induced to make the effort to perform one of the duties that is outlined in the Judges Handbook.

The Board of Directors has given us the program, and with the three necessary things to make it go: good leadership at the top; hybridizers taking part; and judges coming to the garden to judge the plants that are there; this Test Garden Program can be of real value to the members and the hybridizers of the Society.

There are many things one who operates a test garden program learns, and these would take a rather lengthy article, just to relate some of them. But most important, I believe, is the fact that no program can succeed by standing still.

April in Alabama – With a Taste of Tennessee

IRA E. WOOD

This is the story of a New Jersey gardener's iris trip to the Southland. This spring, thanks to early retirement after thirty-eight years in an industrial research laboratory, I had time to visit some of the early gardens without using up vacation time needed for the convention. To savor the iris bloom in late April and to anticipate what is to come later in the home garden is very pleasant indeed. Having read the Regional Newsletters which supplied numerous possible objectives, I decided to visit gardens in Alabama, Mississippi and Tennessee.

The very efficient grapevine communications system maintained by our editor somehow traced my journey and a letter from him stimulated this attempt to share with you the pleasures of the trip.

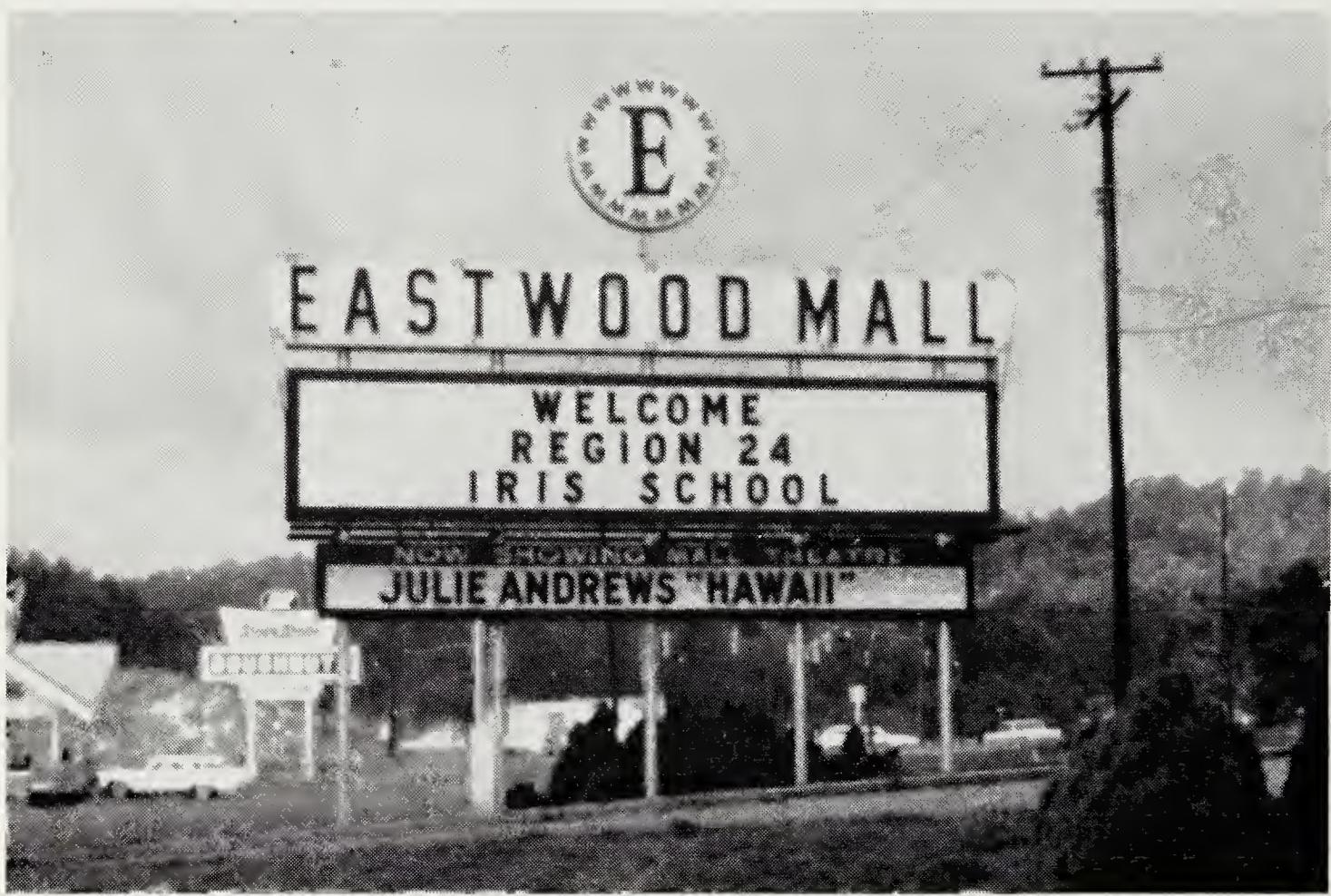
A few hours in a south-bound jetliner can advance the season by almost a month. Five or six degrees of latitude make a big difference. The red maples were just beginning to show color in New Jersey, but the trees were providing a background of lush green for the gardens of Alabama. When I left home, the winter mulch was not all removed from our garden; when I arrived in Birmingham, the irises were in full bloom. To put aside one's overcoat and to walk into the Langdon's garden on the same day is the best spring tonic to be had.

In the Birmingham area Olive Langdon showed me the Fortenberry, Finchum and Langdon gardens. The latter two are hillside plantings and skillfully arranged terraces enhance the view of the flowers. I was impressed by the number of new irises in these large collections. The pictures for a color catalogue could be taken there, and there would be a few omissions from the Judges' Choice and Popularity Poll listings.

Joe Langdon, RVP Region 24, joined us after his business day and we visited the Miles' garden. Mrs. Miles, who edits the Region 24 Newsletter with her daughter, Nan, was responsible for my coming to Birmingham. In the Newsletter she gave all the information concerning the Judges' Training School sponsored by the Birmingham Area Iris Society, which I wanted to attend. The Miles' garden is a large one with much interesting plant material in addition to the beautifully grown irises. Here I met some of the enthusiastic irisarians who are responsible for keeping Region 24 active and strong and enjoyed with them a fine dinner in the Miles' home.

Any traveler entering Birmingham via Highway 78 East during iris season must have been astonished to read a large illuminated sign in front of the Eastwood Mall. In giant letters it proclaimed "Welcome Region 24 Iris

School." Below this greeting, in smaller letters, appeared another message: "Julie Andrews in *Hawaii*." It takes the persuasiveness of the proverbial Philadelphia lawyer to achieve a billing like this! Obviously there is a Birmingham lawyer, too.



The Birmingham Area Iris Society has organized a series of three Judges Training School sessions with Mr. William T. Bledsoe as instructor. It was my privilege to attend the second session as a student. The AIS committee did a magnificent job in revising our Handbook for Judges and Exhibitions, and Bill is now demonstrating how this book can be used as a text for the course. About twenty-five irisarians from the Birmingham area listened intently for several hours and resolved to become conscientious and competent judges. I was particularly impressed by the uniformity of the results shown when the students tested their judging prowess on some cut specimens indoors. After a pleasant luncheon we adjourned to the Finchum garden for a practice session of garden judging.

Another objective on my list was an inspection of the test garden of the B. Y. Morrison Research Project at the Mississippi State University at Starkville. The AIS has contributed to the support of this experiment and I was curious to see how it was progressing. Arrangements for a visit were made by Joe Langdon. Dick Mansfield-Jones, President of the Birmingham Area Iris Society, Joe Langdon and I started a long drive to Starkville at 5 a.m. Sunday. Unfortunately we were there at a time when we could not meet Dr. C. O. Box, who is in charge of the program; but Mr. Halbert Cunningham escorted us very graciously to the research project planting and also to some of the Starkville gardens. Rain prevented exposing film and my camera notes are therefore scanty.

In the Mississippi State iris test garden at Starkville they are testing various kinds of mulch for irises. The garden is neatly laid out on the gentle slope of a hill. The drainage is very good and water from a heavy rain which had fallen just before our visit had already drained away. Soil conditions were excellent for irises. Each test plot was planted with twelve rhizomes of PINNACLE. Several different mulches are being tested and each treatment was repeated in a statistically random manner. The plants were healthy and the foliage was lush and green with no evidence of leaf spot. The bloom stalks were of normal height and loaded with buds and blooms. The neatness and clean culture were impressive and we can all anticipate reading interesting reports from this project.

From Birmingham to Huntsville is a short hop. Bill Bledsoe met my plane at Huntsville and after a drive of thirty miles we walked along the seedling rows in his Fayetteville garden for an hour before dinner. To me, a first visit to a hybridizer's garden is always an exciting and stimulating experience. Bill and Mary Lou are delightful hosts who thoughtfully allowed me the time, next morning, that a photographer needs to tinker with his gear.

SUNBURST and BLUE BONANZA were two Bledsoe irises that I liked. SUNBURST is a pleasing bicolor with pink standards, pale orange falls and a tangerine beard. BLUE BONANZA is a tall dark blue self with a beard that is almost white. There were many other interesting seedlings in this large garden.

The Huntsville gardens are far too beautiful to view adequately in the rain. Rosa Bell Van Valkenburgh grows all of the new irises in well-tended beds. The seedlings from a WHOLE CLOTH line were unusually good. One of them has been named CHARLOTTE SAWYER to honor the energetic and tireless supporter of the B. Y. Morrison Research Fund. SCARLET RIBBON, a large new Tompkins red, was growing well in the pouring rain in the Branum garden, and Dr. M. J. Hill had a good seedling which will bear watching.

Leaving Huntsville on a stormy morning, the plane detoured around the largest thunderheads and eventually landed at Memphis. I like Memphis. It is a beautiful city and the gardens are superb. It is also the home of Bob Carney and Jake Scharff, both very special people in the iris world.

The Ketchum Memorial Garden is surely one of the finest in the world. The irises were near peak bloom, the sun was bright, and I exposed two rolls of film! All of the newest and best irises were blooming in well-tended beds. Jake Scharff and his able assistants have made Ketchum a showplace for irises. The Memphis Botanic Garden (which is the new name adopted to embrace the entire operation at Audubon Park) has something for everyone: daffodils, roses, azaleas, hemerocallis, lilies, magnolias, and an arboretum. The garden is a rainbow of color displayed against a basic background of green. *Ilex Burfordi* is a perfect foil for these irises.

Region 7, which includes Memphis, had announced a spring meeting, garden tour and iris show for May 6. Warm dry weather advanced the bloom season so rapidly that the date was moved ahead one week to April 29. Since peak bloom was predicted even earlier, an informal tour was arranged for the weekend of April 22 when I was still in Birmingham. However, on April 29 I joined the sizable group which visited the Memphis gardens on

the scheduled day. We saw the Lewis, Stovall, Miller, Crenshaw, Tipton, Brinkerhoff, Harrel, and Allen gardens. This was indeed a whirlwind tour which required careful planning. There was little time for taking pictures. I saw SCARLET RIBBON again in the Crenshaw garden. Maynard Knopf's HI VALUE was blooming nicely in the Brinkerhoff garden and I like it. Almost all of the new irises were displayed in the Memphis gardens.

Since Jake Scharff was my host, I enjoyed the privilege of being in his garden early and late. There were many fine irises to be observed. BARCELONA (O. Brown '67) is a vivid bicolor with pale tan standards and royal purple falls. A complete list of good irises in this garden would be long because Jake is a connoisseur of fine irises.

As a final, and unexpected, dividend I rode to Nashville with Bob Carney to see the Wills' garden. The garden where such famous irises as CHIVALRY, STARSHINE, and KING'S MOUNTAIN had their origin is a fine place to browse at leisure. The seedlings from the bitone line that produced KING'S MOUNTAIN were particularly interesting to me and I noted 87-66 as one of the best. In the display beds was KILLARNEY WATERS (Buttrick), a beautiful clear blue with a pale yellow beard.

All good things must end sometime and my spring iris trip to the Southland was no exception. The folks in New Jersey told me when I got home that I had just missed a snowfall. This is surely the last blast of winter and I can resume the removing of mulch (and weeds) from the iris beds in our New Jersey garden.

1967 INTRODUCTIONS

ANGEL LACE. Sdlg. N63-336. TB E-L. Lacy white standards with yellow at the base, mustard-yellow falls and beard. (N59-107-120:Green Tinge x N6-75: Pinnacle x Minnie Colquitt x Melitza X Green Boy x same parentage as above.)	Net \$25.00
OVERDUE. Sdlg. N61-44-2. TB. 38". E-VL. White bitone with slight blue tinge to standards. The falls are warm white and the beard is tangerine. Tall and well branched. This has been requested for introduction by several people. (Lipstick X Frost and Flame)	Net \$20.00
KNEE HIGH. Sdlg. N61-44-62A. BB-28" EM. Well-proportioned white with a coral beard. An arranger's delight. (Lipstick X Frost and Flame)	Net \$15.00
LINES OF BEAUTY. Sdlg. N62-75-3. TB. 36" M-L. Glistening light orchid standards edged darker; the falls are white with deep orchid lines and a tangerine beard. (Parentage involving Teacher's Pet, Lady in Gold, Spindrift and Melitza.)	Net \$25.00
POWER AND GLORY. Sdlg. N64-22-65B. TB. 33". M-L. Flaring red with a brown-red beard. Fine. (Jungle Fires X Apple Cup)	Net \$25.00
WORTHY. Sdlg. N59-8-1. Arilbred. VE-M. 32". Light orchid standards; The falls are tan with a tannish brown beard. Wide petals. (Green Tinge X Capitola)	Net \$25.00

NOYD'S IRIS GARDEN

1501 FIFTH STREET

WENATCHEE, WASH. 98801

Swamp Flags Come of Age

TRESSIE COOK

"Giant Wild Irises Found in Louisiana." This was the headline of an article appearing in the *New York Times* on October 30, 1930; thus, the finding of natural fields of seven-foot irises in the lower Mississippi delta, not far from New Orleans, was announced to the world. At last "les glades de marais," literally known as glads of the marsh by every Cajun, trapper and fisherman, made their formal debut into the horticultural society of the world.

The discovery of these natural beds of irises was accidental. In the spring of 1925, during a botanical trip from Florida to western Texas, the late Dr. John K. Small of the New York Botanical Garden caught a fleeting glimpse of them through the train window. He immediately took steps to return and investigate more thoroughly what he had seen.

A special permit was given to him by the railroad company, which placed a powerful hand-ear at his disposal. Donning boots, the expedition returned to explore the swamplands. Dr. Small and his companions, wading through water waist deep and with uncertain footing and ever on the alert for snakes, finally reached these plants. At that time he found more than 200 brilliant hues in the colony, practically all colors and shades known among flowers, blooming in profusion; a breathtaking experience and beauty unmatched by anything he had seen before.

Residents of Louisiana had long admired and taken for granted these handsome flowers, but it was not until Dr. Small discovered and called the region around New Orleans "The Iris Center of the Universe" and wrote about them in *Addisonia*, the bulletin of the New York Botanical Garden, that the public was made to realize what treasures were growing there unassisted by man.

Long before Dr. Small made his famous discovery, Abbé Claude C. Robin traveled into the interior of Louisiana and through the Teche and Attakapas region, where he saw many varieties of irises which he mentioned in *Voyages in Louisiana*, published in 1807.

John James Audubon was the first to call a Louisiana iris by that name. With the Parula Warbler, he painted a rose-colored iris, and in his notes designated it Louisiana iris.

In 1812, an Englishman, John Bellenden Ker, grew and described an iris which had been imported into England from Louisiana. Writing in *Curtis' Botanical Magazine* under the title "Iris Fulva, Tawny or Copper-coloured Iris," he writes, "an recorded and singular species, differing from any known to us in colour and inflection of the corolla. Found spontaneous on the banks of the Mississippi, in low ground not far from the town of New Orleans. Introduced into this country in 1811, by a Mr. Lyon."

Just as fascinating as the irises are some of the facts and confusion about the name of John Bellenden Ker, botanist, wit, and man of fashion who wrote the above paragraph. He was first called John Gawler, and it was by this name he obtained a commission in the British army. He was compelled to quit the army, owing to his display of sympathy with the French Revolution; and in November, 1804, George III, out of respect for his cousin, William, Seventh Baron Bellenden and Fourth Duke of Roxburgh, granted him a

license to take the name of Ker Bellenden in lieu of Gawler; but he was invariably known as John Bellenden Ker. Whether this man is referred to and written about as John Gawler, Ker Gawler or John Bellenden Ker, he is the one and same, the first person to have described in print a specie of what is now called the Louisiana iris.

Synonymous with Louisiana irises is the name, Caroline Dormon, author, scientist, hybridizer and artist, who found a blue flag at Morgan City, Louisiana, in 1920, five years before Dr. Small made his discovery. She grew this little blue flag, *I. fulva*, and another variety, later discovered and named by Dr. Small as *I. giganticaerulea*. From this humble beginning she has given to the iris world such outstanding varieties as WHEELHORSE, VIOLET RAY, SAUCH MINX, THE KHAN and others. In May, 1934, *the American Home Magazine* featured a full color page of Louisiana irises drawn by her. Her books, *Wild Flowers of Louisiana*, *Flowers Native to the Deep South*, and *Natives Preferred*, contain chapters on Louisiana irises, and have done much to spread to the scientific world a knowledge and appreciation for these flowers. On January 26, 1965, Louisiana State University conferred on her the honorary degree of Doctor of Science for her contribution to botany, horticulture and forestry.

Mary Swords DeBaillon, a contemporary of Caroline Dormon, is another important name in the history of Louisiana irises. She began collecting them prior to 1932. A very ardent collector, she used excellent judgment in selecting varieties which had garden value. Having a dynamic personality and a knack for "getting things done," she spread her enthusiasm for these flowers over Louisiana. She willed her collection to Miss Caroline Dormon; and to W. B. MacMillan, she gave seeds of some of her finest crosses.

W. B. MacMillan, a newcomer to the Cajun country, often explored the bayou region and swamps around Abbeville, Louisiana, and it was on one of his jaunts that he discovered big clones of red and yellow irises, which we know today as the Abbevilles, now used so widely in breeding and hybridizing.

At the suggestion of Mr. Mac, the many friends of Mary Swords DeBaillon gathered at Lafayette, Louisiana, in 1941, and organized the Mary Swords DeBaillon Louisiana Iris Society. The main objectives of this society were the preservation of the Louisiana irises in their native habitat and to study and disseminate information about them. In the fall of this same year the DeBaillon collection of 174 rhizomes was planted on the horticulture farm of Southwestern Louisiana Institute, now the University of Southwestern Louisiana. A duplicate planting has been extended to Cypress Lake on the main campus of the university, to which more than 100 choice varieties have been added. Each year as these flowers bloom, hundreds of tourists and thousands of students have an opportunity to view these denizens of the swamp in their natural setting.

When one thinks of Louisiana irises, one recalls the contribution made by the late Ira S. Nelson, a founder and first secretary of the Society for Louisiana Irises. He not only served as president and vice-president, but for 24 years was show manager. Ike was a convert to Louisiana irises; having come to the bayou country from Missouri, he had to be shown. A professor of horticulture from 1941 until his death in 1965, he devoted much of his time to research and hybridizing irises. His great knowledge and his ability

to organize, direct and lead are in part responsible for the growth of the organization.

The history of the Society for Louisiana Irises has been interesting and varied in its first twenty-five years, always progressing. From collecting in the swamps, swapping plants, dusting pollen here and there "just for fun," and interfering with the bumblebees, has emerged a full grown organization. The original society sought to preserve the irises in their natural bayou settings, but twentieth century progress is reaching into these remote Louisiana swamps, and in a few more years the large areas once covered with native irises will be a thing of the past. The encroachment of industry has already destroyed many of the native beds; canals are being dug, swamps are being drained, and rural electric right-of-ways crisscross and stretch through areas which were once fields of brightly-colored irises. Cows graze in fenced pastures which were once the collector's paradise, and with progress and industry will go the fields of irises in their native setting.

The Society for Louisiana Irises is keeping pace with the times. It is promoting research, offering scholarships, publishing articles, registering irises, and holding symposiums. From a winner in a local show chosen by membership vote, we now have an AIS officially judged show, giving separate awards to seedlings and registered varieties. Our irises are in national competition through special AIS awards for Louisiana varieties only, such as the Mary Swords DeBaillon Award, established by AIS in 1948.

The show held in connection with the annual meeting of the society has progressed from the first one held in 1942 in a campus residence, the irises being exhibited on the kitchen table and in milk bottles atop the bed of the house director, to the extravaganzas held now in a large coliseum. This huge building being transformed into a swamp, complete with bayou, Spanish moss and a pirogue, where giant cypress trees and the aroma of roasting coffee add more local color. Other shows have featured gardens, complete with formal beds of native irises, flowing fountains and statuary, but always new hybrids and introductions holding the center of attraction. We have come a long, long way, and have done a heap of growin'.

One does not have to live in Louisiana or one of the other Gulf states, or be an expert to grow Louisiana irises. They are equally at home in California, Australia, South Africa and New Zealand. They have been successfully grown in the New England states. One may grow them as an amateur gardener, hybridize and experiment with them or grow them to be used in flower arrangements.

Men in particular have found hybridizing irises a challenging hobby, where one meets many interesting people of all ages and from many different professions and areas. One of the fascinations of iris growing is the number of hybrids that can be achieved by accident or by calculated design. Nature has produced some spectacular rainbow colors when the low blooming blues of *foliosa* crossed with the tawny red *fulva* and the six foot high *giganticaerulea*. If one wants to assist the birds and bees in expanding the color chart in flowers, the Society for Louisiana Irises extends this opportunity.

G. W. Holleyman of Lake Charles, Louisiana, has collected and hybridized irises for over twenty-five years. Some of his outstanding "fun hybrids" are ROYAL LADY, PEGALETTA, RUTH HOLLEYMAN and his latest introduction, GOLDWATER, a beautiful light cream-colored iris. Mr. Holleyman says, "Hy-

bridizers never die; they always have a new crop of seedlings coming on which they must see."

In 1966 we celebrated the twenty-fifth anniversary of the Society for Louisiana Irises; we look backward and view our accomplishments with pride; we look forward and plan for the future. Hundreds of persons have worked to promote this organization, each making a definite contribution in his own way. Lasting friendships have been made; yes, even courtship and marriage have resulted. We feel certain the next twenty-five years will have a greater history.

Tressie Cook of Lafayette, Louisiana, is a retired associate professor of library science at the University of Southwestern Louisiana, and is the author of *Louisiana Irises, a Bibliography*.

Louisiana Iris Silver Anniversary Heritage

CHARLES W. ARNY, JR.

Many of our most valued garden flowers today have been developed over years of intensive cultivation and breeding. In light of this fact, it is amazing the rapidity with which Louisiana irises have been and are being developed.

The present day iris would not have been possible if it had not been for the early cultivars, such as CAJAN, NEW OLEANS, BON ROUGE, GYPSY RED, OPAL DUSK, MARY DEBAILLON, CONTRAST, WILD SWAN, JEUNE FILLE, ANGEL WINGS, KRAEMER YELLOW, REFLECTED LIGHT, FORSYTHIA, MEI LING, BAYOU VERMILLION, HOMACHITTO, HOMAHOULA, OLD CORAL, HAILE SELASSIE, PEGGY MAC, and many others.

With the excitement of finding or developing these early cultivars and some study or analysis made by botanists and plant scientists, it was determined that for the most part these cultivars were created from four types of irises, referred to as *Iris fulva*, *giganticaerulea*, *brevicaulis*, and a giant *fulva* type of iris referred to as Abbeville *fulva*.

The *fulva* iris has many flowers borne on rather straight 30-inch stems, usually small, rusty red or copper colored with all floral parts drooping.

The *giganticaerulea* are the giants of the Louisiana family, sometimes five feet; flowers are large, five to seven inch spread, usually blue and white. These flowers have sepals or falls held horizontally with the petals or standards vertical.

The *brevicaulis* are dwarfs or babies. Their flowers are of medium size, three or four inches across, with a great deal of substance, and are usually colored blue and white. The flowers are borne on zigzag or straight stems below the top level of the plant foliage. The irises are upland irises found natively out of water.

The Abbevilles or giant *fulva* are for the most part giant reds, but yellow hues are found. The rather flat, full flowers of these giants often have thick, leathery, overlapping petals and sepals with varying signal patches. Many blooms have excellent substance and occasionally have a crepy or velvety texture. The growth height of these irises is usually about three feet. These



LOUISIANA IRISES: From top to bottom: Abbeville smoky, *fulva*, *giganticaerulea*, *brevicaulis*, HAILE SELASSIE. Photograph courtesy Charles W. Arny, Jr.

irises frequently have branched flower stems that extend well above the foliage height. The flower buds are found at each flower position.

Recognizing that today most Louisiana irises are hybrids; that is, they are the product of blending of various species of the group of beardless iris, judgment of their merits must take into account the nature of their ancestry.

Some criteria for evaluating these garden flowers would include color, substance, texture, novelty, fragrance, proportion, floriferousness, branching, bloomstalks, foliage and vigor.

No irises possess more variation in color than do the Louisiana irises. Whatever the variation in color, they should create a harmonious effect. The colors should be clean, clear, preferably colorfast; and where crests or signal patches are present, they should be well defined.

Substance is a very important quality that makes the flower last longer, hold its shape, and withstand the wind, rain and sun. This quality of rigidity or firmness makes it possible for the flower to retain its particular form and balance.

In Louisiana irises, one should expect diversity in form and statue. While apparently there is a preference for the wide, flat, overlapping form with more substance, there is nothing showier than the flaring form or an intermediate between the two with sepals slightly drooping.

Texture refers to the characteristics of the surface of the flower parts. This quality may be described as silky, stainy or velvety, smooth or rough. Many people would like to see more of the velvety textured iris than are found today. Certainly a rough, coarse texture is undesirable.

One of the qualities breeders have been giving attention to is floriferousness. This refers to the extent to which a cultivar blooms freely, the number of bloomstalks, and buds borne on each bloomstalk. Our garden hybrids of today should have a minimum of four flower positions with no less than six buds per stalk.

Louisiana iris flowers should be borne on strong stalks, straight or gracefully curved above the foliage. It is very desirable to have well-placed branches in order to add floriferousness and proportion to our iris plant. In regard to proportion, it should be pointed out that foliage should be proportionate in size and amount to the overall plant size.

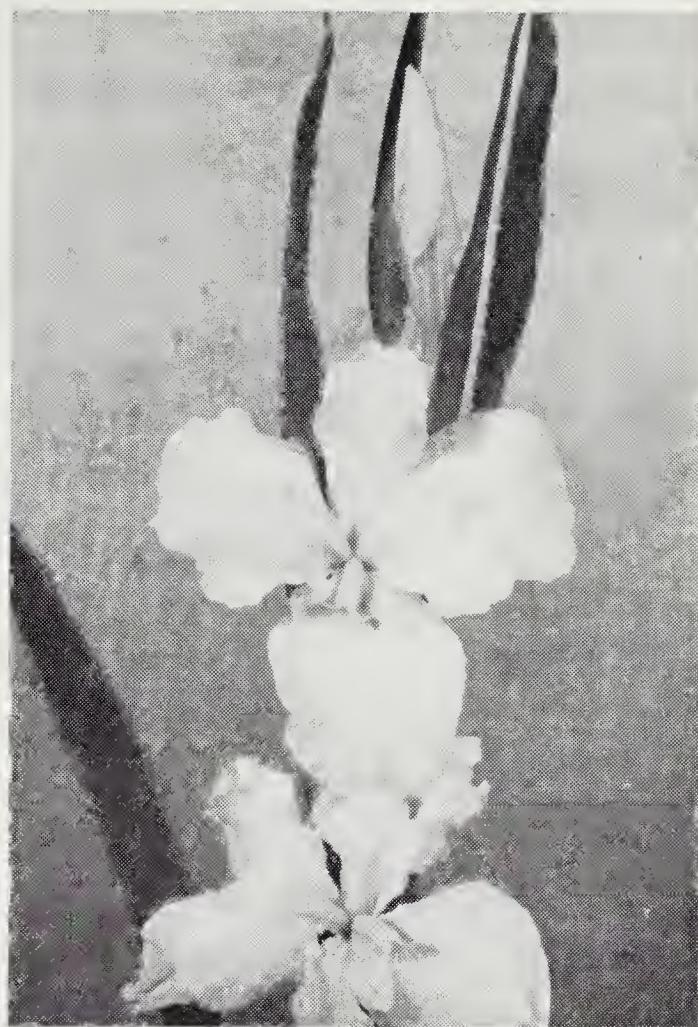
With this very brief background of various species making up the ancestry of our Louisiana irises and their nature, together with some suggested criteria for judging the merits of Louisiana iris cultivars, let us view a recent part of the 25 years of heritage Louisiana iris breeders offer.

In the Lake Charles area of Louisiana, Mr. and Mrs. G. W. Holleyman, Mr. Marvin Granger, Mr. and Mrs. John Neugebauer, and Mr. Sam Redburn have produced some outstanding cultivars.

The most recent outstanding of Mr. and Mrs. Holleyman's creations are two very similar irises that are white or very nearly so, named QUEEN O' QUEENS and GOLDWATER. QUEEN O' QUEENS has a large, rather flat flower with wide overlapping floral parts. The stylearms are wider than usually found, and fork into four or five sections on each flower, and have a perfect claw on each section. Flowers are borne on a strong, sturdy 30-inch stem. The most significant features about this iris, in my opinion, are the height of the flower stalk and the near flat flower form. In this iris there is size,



QUEEN O' QUEENS (Photo by Arny)



LOUISIANA SAMBO (Photo by Arny)

the flat form in white not commonly found, and flowers produced on a stalk that is not too high. These features, when transmitted to other irises, will result in a better garden iris.

From Marvin Granger the iris world has BRAMBLE QUEEN, a lovely lavender-pink that has large, rather flat flowers borne on a strong stem at five well-placed bud positions. This is an excellent garden variety. YELLOW SAILS is a pretty greenish yellow which took my fancy. While I would like to see more substance in the flower, it is a very distinct yellow and most appealing. Probably of more interest and importance for the future is Granger's interest in breeding double flowered Louisiana irises. Granger collected the only double Louisiana iris I know of in the Cameron swamps in 1956, and named it CREEOLE CAN CAN. Using this cultivar together with such cultivars as THE KHAN, WHEELHORSE, and others, he is developing a new strain of Louisiana irises. From this line of breeding, he has gotten unusual shaped flowers with varying degrees of doubling. DELTA STAR is one of the selections Granger made from this line of breeding. This is a dark purple, star-shaped iris which is more double than its double parent, CREEOLE CAN CAN.

Contributions from a man on the go, John Neugebauer, would include such cultivars as Ruzita, LOUISIANA SAMBO, PEASANT PRIDE, and DIAMOND CUT.

Of these cultivars LOUISIANA SAMBO and PEASANT PRIDE have the greatest appeal to me. Perhaps this attraction is in part due to the bright yellow to orangish color of these cultivars.

LOUISIANA SAMBO is a very striking medium yellow self; flowers are large, very showy, borne on strong stems 38 inches tall. This iris is very floriferous, flowers at five bud position, and two or more flowers open at the same time.



PEASANT'S PRIDE (Photo by Arny)



I. giganticaerulea (Photo by Arny)

The bluish veining in the floral parts adds to the distinction of this cultivar. For the size of the slightly flaring form, the substance of the flower is exceptional. This cultivar won an HC in 1964.

Without Sam Redburn's LADY FLORENCE, the baby of WHEELHORSE × VIOLET RAY, the development of QUEEN O' QUEENS, GOLDWATER or LOUISIANA SAMBO would very likely not have taken place. When Louisiana breeders saw LADY FLORENCE, they nearly went wild. Such vigor and prolonged bloom, together with its big size and yellow-orange color, are something to prize. It is a fine garden cultivar. Another deserving iris of Redburn's is BECKY. It is another beautiful yellow, with large, showy flowers borne on a strong stalk at five bud positions, and it has branching.

Down Abbeville way, Mr. W. B. MacMillan and Peggy provided us with such cultivars as SIDNEY CONGER, OPEN LETTER, AVIATOR CHARLES NELSON, and SIDEUX LE JEUNE. SIDNEY CONGER is a large, flat to slightly flaring cream-white flower borne on strong stems at five bud positions, and with two or more blossoms open at the same time. The stylearms of this cultivar are cream-yellow, which contrast with the white floral parts. This cultivar is an exceptionally good bloomer and makes a beautiful garden display.

SIDEUX LE JEUNE is something unusual, very different, and a break in the usual color pattern. This iris has large flaring flowers borne on three-foot stems and well placed. Flowers are white with lavender splotches over the floral parts. While the color combination may not appeal to all, those who like something different will fancy this cultivar.

Lafayette makes its contributions through the efforts of Nolan Sahuc, Jules Patin, and "yours truly."

Mr. Sahuc developed RUTH ANNE and his new seedling 66-R-5 which just

received an HC award. Sahuc is particularly interested in red irises, and has been using RUTH ANNE as a pod and pollen parent. His new seedling is a full, medium size, red flower with overlapping floral parts and bright signal patches which contrast beautifully with the red of the falls and standards.

Mr. Patin offers flower lovers TREECIE, GAYSIE, THERESA DOLORES, and MARK FONTENOT. TREECIE, shown for the first time in our 1965 show, caused the eyes of many to nearly pop out. This iris has very large 7-inch flowers with flat overlapping segments of lavender. When the flowers first open, floral parts are held at a 45 degree angle, which later flatten out. Falls have a pear-shaped crests of orange. Styles are cream colored which contrast nicely with the lavender color of the sepals and petals. Flowers are borne at five bud positions on a strong 45-inch stem. Flowers have good substance and are sun-fast.

GAYSIE is a lovely light pink iris. Flowers are slightly cup-shaped with wide, overlapping floral parts. The falls have a chartreuse line crest for good contrast with the delicate pink color of the standards and falls. The flowers are medium size and sun-fast. This cultivar is rust-free and multiplies rapidly.

"Yours truly" places at your disposal such new creations as KATHERINE L. CORNAY, ILA NUNN, COMUS, DENEBO, and EOLIAN; the last four names subject to the approval of the registrar.

KATHERINE L. CORNAY is a striking bitone, mineral-violet colored flower, with pure cream to white stylearms having lacy tips. Flowers are large, ruffled, slightly fluted, and rather flaring. Flowers are borne on three-foot stems at five bud positions and on branches.

DENEBO is a large eight-inch, rose-pink, flat iris that is an eye catcher. Flowers are borne at five positions on strong three-foot stems. Frequently, three flowers are open at the same time. Flowers are very striking with their cream white styles against the pink of the sepals and petals with large yellow signal patches.

ILA NUNN is a beautiful ruffled flat to slightly cupped white iris with substance to spare; sepals are broad and greenish white in color. Bright yellow crests add a touch of contrast to this lovely flower. Flowers are borne at four bud positions on strong 3½-foot stems. It is a midseason bloomer. The breeder of this iris only hopes it will prove deserving of the name of the lovely Texas lady it bears.

Baton Rouge contributes through Joseph K. Mertzweiller and Claude Davis such cultivars as BELLE LOU, GRAPE FLUFF, BELLE HELENE and NEW OFFERING. Mertzweiller's seedlings 62-47A and 60-87 are two cultivars that may add to the qualities desirable in future cultivars.

Davis' NEW OFFERING is an outstanding dark blue-violet self. The flower is large, flat to slightly flaring, and very full. Not only is this iris distinguished by its size and color, but the absence of any crests makes it something very special to the iris lover. It is a vigorous grower and rust resistant. This cultivar is a must for the Louisiana iris garden.

Located close to the highest elevation in the state of Louisiana in Arcadia are Betty Leand, Sidney Conger, and Mrs. Inez Conger, from whom came these important cultivars: BAYOU GLORY, ROYAL VELOUR, ACADIAN, CAPTAIN BILL, ROSE ROYAL, SARA GLADNEY, MARIE CAILLET, and W. B. MACMILLAN.



ILA NUNN (Photo by Arny)



DENEZ (Photo by Arny)

The latter two cultivars are of particular interest because of their desirable qualities and potential breeding possibilities. MARIE CAILLET is one of the most outstanding cultivars for the garden. This iris grows about 3½ feet tall; flowers are medium blue-violet with bright rounded signal patches on sepals; and has a campanulate form. The sturdy flower stalks carry from seven to twelve flower buds and very frequently produce branches. It is one of the best cultivars for a garden display.

The cultivar W. B. MACMILLAN is unique among the Louisiana irises. The flower span is six inches. The petals are three inches long and 1½ inches wide, overlapping in the center of the flower under the short stylearms. Sepals are 3½ inches long and 2½ inches wide, with mauve-rose color. The flat form of the overlapping floral parts with bright signals, the contrasting stylearms, and the ruffled edges of the sepals make this an exceptional iris.

No discussion of heritage in Louisiana irises would be complete without making reference to Miss Caroline Dormon. While the cultivars mentioned here are for the most part of recent vintage. Dr. Dormon's contributions to Louisiana irises by both deeds and words is indeed beyond measure. Iris fanciers are indebted to this champion of Louisiana irises for such cultivars as OLD CORAL, FORSYTHIA, UPSTART, WOOD VIOLET, SAUCH MINX, THE KHAN, VIOLET RAY, GREEN TRACERY, and WHEELHORSE. If I might venture to pick one cultivar of Dr. Dormon's that has contributed more to improvement of our iris cultivars than any other, I would select WHEELHORSE. An analysis of the breeding behind many of the outstanding cultivars of today will reveal the importance of this one cultivar.

Yes, as we close our celebration of twenty-five years of growth and examine the results in Louisiana irises, one might say we have a very promising heritage. Let us hope that the next twenty-five years will yield even a greater heritage.

Mary Swords DeBaillon

PEARL M. SEGURA

Mary Swords, one of eight children, was born on January 23, 1888, in Opelousas, Louisiana. She was the daughter of Marion Lewis Swords and Aola Virginia Ward.

Her father was born on a plantation near Big Cane, Louisiana, in St. Landry Parish, on February 24, 1857, to James T. Swords of Georgia and Mary E. Moss of Mississippi. One of the best known politicians in the state, he served as sheriff of St. Landry Parish from 1900 until his death in 1916.

Her mother was born near Evergreen, Louisiana, in Avoyelles Parish, and was the daughter of Timothy C. Ward of Ohio and Aurelia Leatherman of Mississippi.

Mary's education was received in the Academy of the Sacred Heart in Grand Coteau, Louisiana.

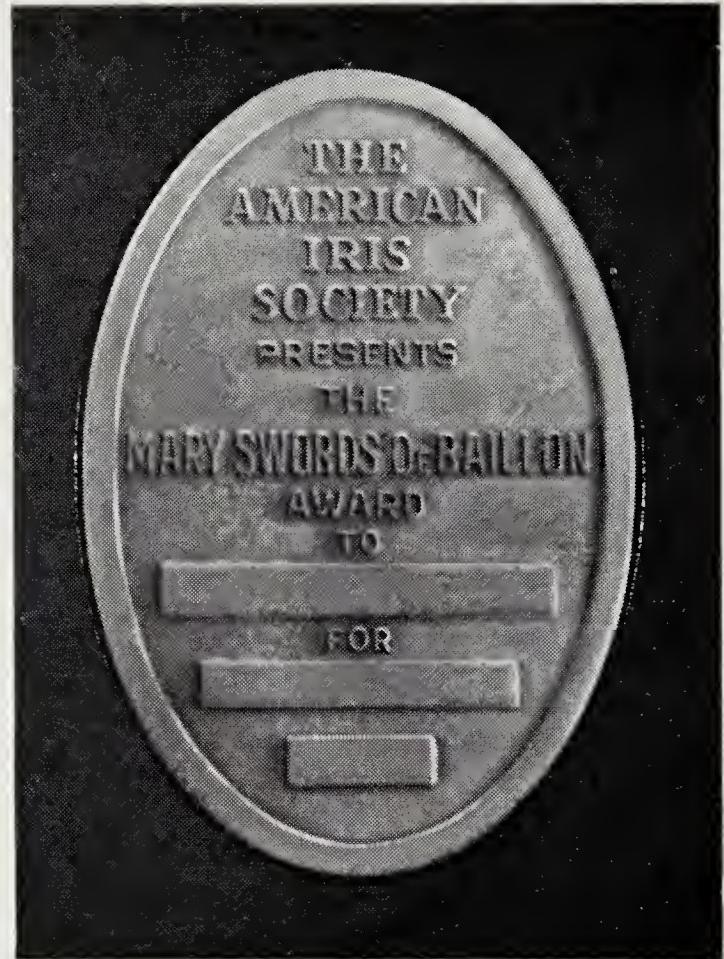
In 1920 she married Dan DeBaillon, a prominent young attorney of Lafayette, who later became a member of the Louisiana State University Board of Supervisors and a member of the executive committee of the Louisiana State Law Institute.

In the mid-twenties they moved from an apartment on College Avenue to a beautiful new brick home at the intersection of the Pont de Mouton Road and what is now known as Moss Street.

The presence of giant live oak trees had been a determining factor in the choice of the location for a home. With these as a nucleus, Mary, a lover of nature, proceeded during a period of a decade and a half to transform the fifteen-acre tract, once overgrown with weeds, into a marvel of horticultural beauty. With a sure eye for the right location for the right plant, coupled with wise selectivity, Mary gradually developed her garden so that each season greeted her with its own special blooms, bringing joy to her heart the whole year round.

Childless, Mary loved her flowers, says her friend, Mrs. Charles E. Hamilton, "like a mother loves her children." An intelligent conversationalist of average height and weight ("au bon point," said Mrs. Hamilton), with brown naturally curly hair, laughing brown eyes and dimpled face, Mary's soft manner belied a strength of character and determination that overrode obstacles that would have daunted a more timid soul in her ceaseless search for the floral treasures with which nature had endowed her native state. Most often accompanied by her negro yardman, but sometimes by her husband, a friend, or fellow collectors, she fearlessly dared the dangers of the swamps with their deadly water moccasins for some elusive plant to add to her growing collection of native flowers.

It was the sight of the Louisiana irises thriving in the sandy soil of Caroline Dormon's "Briarwood" in the spring of 1932 and the realization of its adaptability and possibility as a garden flower that excited her fancy and spurred her onward in a concerted effort to collect every variety possible—a few of which she already possessed. Heretofore, her interest had rested on camellias (of which she had more than 100 varieties), azaleas, magnolias, and other ornamentals, indigenous to the region.



MARY SWORDS DEBAILLON MEDAL

So great was her zeal that in a number of years she had acquired the most extensive and varied collection of Louisiana irises to be found anywhere. Realizing its value to the floriculture of her state during a lingering illness of two years which finally necessitated maintaining her garden by means of bedside instructions, she willed her iris collection to Caroline Dormon.

On March 27, 1940, a beautiful, sunshiny day when her garden was blooming in all its early spring glory, Mary passed away. She was laid to rest in the Swords family plot in Myrtle Grove Cemetery in Opelousas. Choice camellia blossoms from her garden marked the spot.

Area iris enthusiasts honored her memory the following year when on Sunday, May 18, 1941, the Mary Swords DeBaillon Louisiana Iris Society was organized. When this society affiliated with the American Iris Society in 1948 and became the Society for Louisiana Irises, the national organization established the Mary Swords DeBaillon Award for the best Louisiana Iris of the year. The iris which bears her name, registered by Caroline Dormon, received the first award in April 1948.

Mary DeBaillon As We Knew Her

W. B. MACMILLAN

Although it was largely through our mutual interest in ornamental horticulture that brought us together, it soon became Mary herself, her personality, and her character that we, Peggy and I, shall never forget; and it was this that held us together as friends until she was taken away only twelve years later.

Very soon after we arrived in Abbeville during July of 1928, we began scouting in all directions into the South Louisiana countryside. It seemed natural that after being cooped up for more than a year in a small Bronx, New York, apartment three stories up, we should find ourselves much like a pair of bird dogs suddenly released in a field filled with quail trails; and it didn't take us long to learn that the name Mary DeBaillon was already a legend in Louisiana floriculture circles. So we were correspondingly impressed when we were by chance introduced to Mary DeBaillon in a camellia garden a few miles out from Jacksonville, Florida.

Our next encounter was in her own "far more than lovely" fifteen-acre garden located some five miles out of Lafayette, Louisiana, just off the present new Highway 10 as it passes Lafayette. Of course, I found that it was then, as now, enclosed in a netting wire fence that to me looked twelve feet tall, with the gates all locked; but I just had to see Mary again, and having been brought up in West Texas and being naturally a friendly type, I took advantage of a strong looking limb reaching from a sturdy inside oak to my side of the fence, and I soon found myself on the inside; and with the trespassing sign completely out of sight giving me a relatively clear conscience, I soon found Mary DeBaillon on her knees caressing a newly emerging camellia graft. If you could have seen her expression of mingled surprise and disbelief as she looked up and saw me, I am sure you would have agreed that we were by that time irrevocably introduced; and the smile that followed, though perhaps grudgingly given, told me that we were also friends forever.

Certainly, this friendship ripened rapidly as I described to her literally fields of red iris interspersed with yellows that I had stumbled upon in the Steen woods near Abbeville during the previous spring. This discovery of mine was somewhat like, except in reverse, the early English explorers who found fabulous fields of diamonds that the Boors of the South African Transvaal had stubbed their toes upon for centuries without ever realizing their value. So Mary DeBaillon was now not only our friend, but our tutor in native iris values as well.

It was thus that "Abbeville Reds" became news and the news begot interest from far and wide—interest that assembled car pools of iris hunters in a way reminiscent of the early California Gold Rush Days but not quite comparable; and the stature of Mary DeBaillon grew as a naturalist.

Of course, this evidence was not needed so far as those who really knew her, and her fifteen-acre garden plot, were concerned. They were the elite among naturalists who had been privileged to work with her and visit her garden—those who could appreciate the many rare specimen plants, shrubs, and trees that were largely indigenous to the Louisiana area and that over the years had been gathered in this show garden. These were the friends and co-workers who could be trusted to respect the privilege of entry.

It should be of interest to recount at least the last of the many trips we made together in the Vermilion Region of the now famous red and yellow native iris species.

Mary came with her regular chauffeur. I have forgotten his name, but I haven't forgotten Adolph, the huge dog, St. Bernard I believe, that was her constant companion on these field trips. At one point Mary was comparing the many obvious hybrid varieties that we had located among these

large reds, when she suddenly asked her chauffeur to bring to her from her car a large pallet where she stretched out on the ground in obviously great pain. Of course, Peggy and I both shared the anxiety that the chauffeur, and even Adolph, clearly showed, but Mary soon recovered and we completed our last iris field trip together with no apparent ill effects to her.

But by this time we, with her many friends, were gradually becoming aware that Mary's iris, or other plant, field trips were numbered, not so much by time and certainly not by any lack of interest on her part. But courageous as she was and regardless of her anxiety to continue the magnificent collection of Louisiana native iris species that she had been collecting over many years, she telephoned to us one day that she would like to see us. We found her in bed and outwardly as cheerful as ever; and as we were preparing to leave after a delightful but anxious visit, she asked us to look in a certain drawer in her bedroom where we found a sack of iris seed; and she went to great pains to explain how they had been carefully selected for what she thought might be her last planting, but she was now asking us to do this planting for her in our own garden.

It was out of this seed collection that the iris, BAYOU SUNSET, and the iris, AURORA BOREALIS, came and it was these two that became the prize winning seedlings at the first and second years shows of the Mary Swords DeBaillon Iris Society that was organized two years later.

Mary was not only a personality of great stamina and courage, but hers was a clear vision and a strong desire for creating as well as collecting beauty as nature made it. To us she revealed a strong and abiding faith in the goodness and mercy as well as the justice of the Creator of all beauty, all truth, and all love.

The Discovery and Collecting of Louisiana Irises

DR. CAROLINE DORMON

In 1920, I discovered masses of colorful irises growing in ditches near Morgan City, Louisiana. There was a small rust-red, which I found was *Iris fulva*. But there were giant blues and purples which I could not find described in any botany! I took plants home to North Louisiana, and they flourished there.

In 1925, Dr. J. K. Small made his momentous discovery of tremendous iris fields in the vicinity of New Orleans. His succeeding explorations and discoveries are too well known to require further mention here.

On one of his first trips, he visited me, and brought me some iris plants. When I expressed a fervid wish for a white one, he said, "Go to Mrs. B. S. Nelson in New Orleans. She will treat you right!" Subsequently I learned that Mrs. Nelson and her sister, Miss Ethel Hutson, had been bringing in irises for several years, and growing them in their gardens. Mr. George Thomas and several others had collected some unusual colors. Mrs. Olive Lyons and her husband had donned boots, waded bogs, and discovered some very beautiful forms. Later, she gave her collection to Mrs. Cammie Henry, and she shared them with me.

Randolph Bazet, of Houma, accompanied Dr. Small on a number of his exploring trips, and collected some attractive forms.

But the private individual who did the most extensive exploring and collecting was Mary Swords DeBaillon of Lafayette. When her lawyer husband had business in New Orleans, she went with him. At that time, there were iris fields within the corporate limits of the city. She collected some entirely new varieties around Paradis, and other suburbs. A bright red of flat form was so good it was registered and named *BON ROUGE*. A very large white was called *WILD SWAN*, and a lovely frilled one, *JEUNE FILLE*. With her chauffeur, she waded wild bogs, and brought hundreds of irises to her garden. She willed her collection to me, and at her death, I shared these with L.S.U. and Southwestern. At the latter, Ira S. Nelson established special iris gardens, where they are growing to this day. I also gave collections to Mrs. Cammie Henry, and to Mrs. R. E. Randolph, both now deceased.

I had the most extensive collection extant of the wild forms, but when I broke my hip some years ago, they were destroyed. Armadilloes rooted under my net-wire fence, letting in hordes of rabbits. The latter ate off the iris repeatedly, until they finally died. As I had distributed them widely, some are still grown in private gardens. I had given a number to Sid DuBose, who took them with him when he moved to California. Now the co-owner of Melrose Gardens, Modesto, California, he lists some excellent varieties.

My Iris Friends

MARY H. NELSON



My iris friends are the people who came into my life because they and I both worshipped at the Shrine of the Goddess Iris. They have joined me over the years from many places and have gone on iris hunts in various spots.

As a child in Texas I had a bed of old blue flags, as they were called, which I afterwards learned to call bearded iris. When we moved to New Orleans in 1908, my sister, Ethel Hutson, who was already here studying art under Dr. Ellsworth Woodward at Newcomb College, told us about the wonderful field of irises out on Frenchman Street, where Dr. Woodward had taken his class, telling them that in his opinion it was more beautiful than the fields of tulips in Holland.

So, when spring came we all went out on the street car as far as it went

and from there walked on the railroad tracks to the old rice field, then a cow pasture. This sight of endless stretches, or so it seemed, of blue and white irises, standing waist high, was never to be forgotten. From that time on, some members of my family found time to go "Iris Hunting" as soon as the weather got mild enough to make us think buds would be opening. Some twenty years later I showed this Frenchman Street patch to Dr. J. K. Small and Dr. Edward S. Alexander, but it was not nearly so showy.

Later, after I married and we had a car, we could go to many more places. While out at this favorite spot my sister-in-law, Adela Nelson, told me that as a child she used to go there on her uncle's back looking for irises and that he was never content until he found a white and a yellow one. This Dr. Small would not believe until *he* found a yellow one, too.

About 1919 Dr. Reginald S. Cocke of Tulane University started the New Orleans Garden Society, and he told us he thought our irises were *I. versicolor* L. because they varied from white, through many shades of blue, into dark purple, and from the yellow ones to a tawny or copper color.

Many people here in New Orleans were growing these very spectacular irises in their gardens. Among these were Mrs. Ole K. Olsen, who later became president of the Garden Society, and Mr. Percy Viosca, Jr., who was head of the Southern Biological Supply Company. My brother had some in his yard from that first trip we made to Frenchman Street; and, as soon as I married and had a yard of my own, I put in a bed of them and since have never been without some Louisiana irises.

About 1920 as secretary of the Garden Society, I had a chance to refer to Dr. Small's *Southeastern Flora*, the first edition, and decided that our big blue iris was not in it. A few years later, when I learned that Dr. Small was in New Orleans, I gathered a lot of irises in as many shades and colors as I could find, and took them to him at his boarding house. He was delighted and promised me as soon as his *Addisonia* prints were ready, he would send me a set. This he did; so when I exhibited a large vase of them in the Spring Flower Show the next year, I labeled each one with a name from his prints.

Mrs. Dan DeBaillon (Mary DeBaillon) was one of the judges that year and she hunted me up at once to ask where I had found the blossoms and where I had found the names. That is how I first met Mary DeBaillon and for the next ten years, until her death in 1940, we had many days together, usually hunting irises.

I think it was in 1927 that Dr. Small brought Dr. Edward J. Alexander down with him to collect more irises. I took them out to the Frenchman Street field but found that it had practically dried up; so I gathered some of my Garden Society friends and we took them to the Arabi section of the city, where there were a number of cow pastures, more or less flooded with recent rains. I will never forget Dr. Alexander's amusement over the way we dressed with boots and old straw hats and most any kind of dress that water and mud could not hurt. He said his idea of a "Southern lady was one in a white, ruffled dress, sitting on a porch, rocking and fanning;" and this contrast of our group dressed in boots, dragging large sacks in which to carry home our irises, quite upset his "funny-bone." He just stood and laughed. Both he and Dr. Small were amazed that we were not afraid of

snakes. We weren't—not when we were after rare specimens of irises.

It may have been this trip or another time, when Dr. Small was in my yard, that he named the white iris I had dug up from a pasture ditch near Des Allemands 'Elephantina'. "Why name it such an ugly name," I said. He replied "That means ivory, and this flower has no tinge of blue." He had already named the one we called white 'Miraculosa'. And then he told me how he happened to give the white iris he collected in Florida its name. He went out into the swamps quite early in the morning alone and as he reached a grove of cypress trees a ray of sunlight came through the overhanging trees, full on a tall, white iris directly in front of him. He stopped speechless, thinking he had met His Maker, face to face; 'Albispiritus'. The list of people Dr. Small and Mary DeBaillon brought into my life is a long one, and I will touch on some of them briefly.

Mary came back again and again, bringing Mrs. C. A. Shehee, and Mrs. Ruth Dormon of Shreveport, Louisiana, one time; on another trip we went to see Mrs. R. E. Randolph of Alexandria, Louisiana, who was here visiting her daughter. That visit started a long friendship. Caroline Dormon was another of Mary's friends whom I liked so much.

Beverly Randolph, (Mrs. Edwin L. Stephens) whose husband was President of Southwestern Louisiana Institute at that time, was another of Mary's friends. She had studied under Dr. Ellsworth Woodward and knew the beauty of our native irises. Mary DeBaillon and I gathered a lot of irises, including a good supply of white ones, and sent them to Mrs. Stephens to plant around a fountain at the college. We claim that was the beginning of the lovely display of native irises now at Southwestern's cypress lake. Maybe not, but it could be.

Sometime in the spring of 1933-34 my husband and his brother went fishing near Abbeville, Louisiana, and, when they came home, they told me they got very few fish but had brought me something I would like better than any fish they could bring. It was a big, red iris much like the giganticaeruleas. This I reported to Mary DeBaillon and told her that she must get into the Abbeville swamps to see what was there. She replied that she had no one to go with her. She needed me to "keep the snakes off." Later this vicinity became famous for the great variety of irises found there.

Mr. George Thomas, an English gardener, who became Superintendent of the New Orleans Parkway Commission, says that when he came to New Orleans he used to gather the Fulva iris from a pasture located where the Notre Dame Seminary now stands and ship them all over the world. I do not think he bothered to plant any in his yard until Dr. Small gave him some seed, asking him to report how soon they bloomed. This Mr. Thomas did, using a strip of ground he was mulching to grow azaleas. He called me the next year to see the results. To his and my surprise, the seed he planted the first week in August had several blooming plants in April.

It was Mr. Thomas who found and brought to Dr. Small the first yellow iris which made Dr. Small agree that such a thing could be found. Mr. Thomas also phoned me one day that he had seen a really good pink iris in a yard. I repeated this to Dr. Small and took him to the yard to see it.

Dr. Small got so much publicity for his iris discoveries that a number of people from different parts of the country came to get started raising them

commercially. Mrs. J. C. Nicholls and her son got me to show them where to start looking. They were getting them for J. C. Nicholls' Iris Farm at Ithaca, N. Y.

Mr. Edward Teas of Houston was another, and Mr. Frank Chowning of Little Rock, Arkansas, wrote me asking if I could send him either seed or rhizomes. This I did, and the next year wrote "The iris you marked *IMPERIALIS* is indeed that." I also sent him some small white foliosa which he still has, I believe. These came originally from a cow pasture in St. Tammany Parish.

I do not remember just how or when I met Mr. Edgar Anderson of St. Louis, Missouri, but I have a note in my diary saying that on March 27, 1939, I shipped him some iris plants; and the same thing is true of Dr. L. F. Randolph of the American Iris Society's Scientific Committee, who came here with Mr. Ira Nelson sometime before May 1953, for a letter in my file says he remembers a trip with me and Ike Nelson to see the irises down on Bayou Barataria.

Mary DeBaillon died in 1940, but her friendship for me and her love of the many-colored irises did not die with her. She had interested so many people in gathering these lovely plants before "civilization" should crowd them out of existence that her many friends in and around Lafayette formed the Mary Swords DeBaillon Iris Society and somehow I was put on the first board. It was then that I met "Ike" and Barbara Nelson and their charming children, and also Mr. W. B. MacMillan. Since then my iris friends have multiplied and I give Mary DeBaillon all the credit for my acquaintance with all these fine people.

The Quest for Tetraploid Louisiana Irises

JOSEPH K. MERTZWEILLER

The outstanding progress in development of the Louisiana irises over the past 25 years has been entirely at the diploid level. This is not to imply that progress through hybridizing diploid varieties has reached the point of diminishing return. One has only to evaluate the latest introductions in comparison with the best varieties of ten years ago to be convinced of the incentives for hybridizers to continue intensive work with the diploids. A large share of the credit for this favorable situation is due the hybridizers. However, we should not overlook the contributions of Mother Nature. Many of the early collected Louisiana irises were natural hybrids resulting from the work of creative bumblebees with the species *I. giganticaerulea*, *I. fulva*, *I. nelsonii* (Abbeville fulva) and *I. brevicaulis* (*foliosa*). Nature's method of "survival of the fittest" provided a high degree of selection. There is no way of estimating how many decades our hybridizing activities were advanced by these natural phenomena. The role of natural hybrids has certainly been of much greater significance in the development of the Louisiana irises than in the development of the bearded irises.

Yet, in all her bounty, Mother Nature has not provided the one factor which exerted the greatest influence in development of the bearded irises—the availability of tetraploid species. With exception of two known triploids, all

of the Louisiana iris species and hybrids are diploids. The triploid RUTH HOLLEYMAN is a form of *I. giganticaerulea* which was collected by Mr. G. W. Holleyman near Lake Charles, Louisiana. If anyone has doubts about the advantages to be gained by polyploidy in Louisiana irises he has but to observe a well grown specimen of RUTH HOLLEYMAN. Outstanding size and substance are very much in evidence. A triploid form of *I. brevicaulis* has recently been reported and named HEXABLUE by Mr. Robert Welshans.

By their very nature, triploids are highly sterile. It is genetically possible to obtain tetraploids by using triploids as pod parents with the pollen of diploids. This results from the functioning of an unreduced female gamete of the triploid with a normally reduced male gamete of the diploid, giving 3 plus 1 or tetraploid chromosome complement. Functioning unreduced gametes are seldom formed and the probability of obtaining tetraploids by this method is remote. There are a few tetraploid bearded irises which are known to have resulted from crossing diploids on triploids, and this is evidence that it can occur. I know of only one seedling that has been obtained using RUTH HOLLEYMAN as a pod parent, and it is a diploid. In spite of these difficulties more effort should be made by hybridizers to obtain tetraploids by this route.

The only other known method of producing tetraploids from diploids is by chromosome doubling through the use of chemical or physical mutation-producing agents. The chemical agent which has been used most successfully for chromosome doubling of other plant species is the drug colchicine. Production of tetraploid hemerocallis by colchicine induced chromosome doubling is a noteworthy achievement of the past twenty years. Tetraploid hemerocallis are now beginning to replace the diploids. There is no reason why this cannot also be achieved with Louisiana irises.

For many years the writer has been interested in inducing polyploidy in Louisiana irises by means of colchicine. About three years ago efforts to induce polyploidy by colchicine treating reached the level of displacing a major portion of the hybridizing effort. The following descriptions are intended to present, in non-technical terms, the status of this work with special emphasis on what can be expected when complete success is achieved.

Partial success has been attained in that two diploid-polyploid chimeras were produced and bloomed in the spring of 1966. The original plants were at least 50 per cent polyploid according to visual inspection and microscopic examination of pollen grain size. Final proof of polyploidy must be established by chromosome counts, but visual inspection, with or without pollen size observation, is satisfactory for preliminary screening. It turns out that the polyploid characteristics, particularly in chimeric plants, are so striking that visual identification is relatively easy. In addition to producing the two chimeras much knowledge has been gained regarding treating methods and care of the plants after treating.

The longer this work proceeds the more apparent it becomes that it is a long term rather than a short term project. Even when complete tetraploid Louisiana irises are produced the work will only have been started. It will then be up to hybridizers to produce superior tetraploid varieties. Experience with other plant species has shown that initially induced polyploid material is generally inferior in quality to subsequent material derived by hybridization. Much effort has gone into the development of treating techniques and care

of the plants after treating. Of the many methods of colchicine treating which have been evaluated the following three are considered most promising:

Method 1. This involves treatment of plants 6-10 inches tall by immersion of the roots only in 0.05 per cent colchicine solution for 8-10 hour periods, followed by 14-16 hour rest periods with the roots immersed in water or complete nutrient solution. This cycle is repeated six to eight times.

Method 2. This method is carried out on newly germinated seedlings (2-4 days of germination) by total immersion in 0.05-0.075 per cent colchicine for 12 hours. The temperature should not exceed 75° F.

Method 3. This involves treatment of rhizomes or rhizome cuttings having one or more $\frac{1}{2}$ -1 inch offsets by immersion in 0.075-0.1 per cent colchicine for two or three 12-hour periods. The offsets are induced to grow on rhizomes which bloomed by maintaining these rhizomes in a moist mulching material such as pine straw.

Method (1) is applicable to either seedlings or clonal varieties, method (2) is applicable only to seedlings and method (3) only to clonal varieties. It is often desirable to concentrate on clonal varieties rather than seedlings. By using the available clonal varieties of highest quality much time can be saved in achieving the ultimate objective of producing high quality tetraploids.

It has been observed by other investigators and is also apparent from this work that best results are obtained when (1) treatment is carried out on material in a relatively juvenile state of development and (2) the material being treated is in a rapid state of growth (cell division).

Care of the treated plants has proved to be very important in achieving a reasonable rate of survival. Colchicine has a drastic effect and greatly weakens the plants. They must be nursed back to health. The treated plants are very susceptible to rot and must have excellent drainage and must be watered very sparingly. This is a rather unusual requirement when one considers that in the wild state these irises grow and germinate their seed in water. Very recent results suggest that maintaining the treated plants under fluorescent lights 24 hours per day may help greatly in overcoming the shock of colchicine.

The diploid-polyplloid chimeras were produced by the application of method (1) to a group of seedlings which contained a large proportion of *I. nelsonii* (Abbeville fulva) in their background (parentage included varieties such as KINGS GOLD, BAYOU SUNSET, STRUTTING CANARY and WHEELHORSE). The first distinguishing feature which characterized the chimeric plants was a pronounced distortion of the buds. This results from differences in size between the diploid and polyplloid segments of the same flower. Just prior to opening, the upper third of the bud was bent an estimated 20 degrees from the vertical. Once opened, the striking differences between diploid and polyplloid segments and styles were at once apparent. An imaginary line (diameter) would divide the flowers into a diploid half and a polyplloid half. The polyplloid styles were nearly twice as broad as the diploid styles and this is probably the most significant identifying characteristic. Polyplloid segments averaged about 15 per cent larger than diploid segments in each direction. Pollen grains from anthers corresponding to the polyplloid styles were about

40 per cent larger than their diploid counterparts.

In terms of possible effects on future development of Louisiana irises, the most significant observation was the much heavier texture and substance of the polyploid segments. It is conservatively estimated that the polyploid segments were 20-30 per cent thicker than the diploid segments. This is the feature of tetraploids which may overshadow all other features; it points the way to great improvements in the keeping and handling properties of Louisiana irises and to their resistance to wind, rain and other unfavorable conditions. In spite of the great strides in hybridizing, improvement in flower substance probably has not kept pace with improvements in size and form. Polyploidy may be the best answer to this problem.

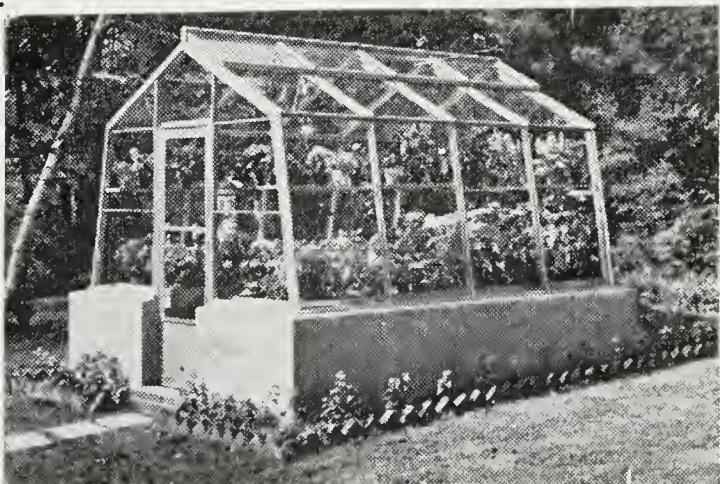
A general property of polyploidy in a plant species is to permit a much broader range of expression of chromosome-inherited characteristics. This range extends to both extremes. Such characteristics as color (shades), form, size, vigor, substance, etc., will be expanded beyond their limits in the diploid state. Thus, some tetraploid Louisiana irises will be larger and more vigorous, but some will probably be smaller and less vigorous than today's diploids. Only by extensive hybridizing and selection will we be able to enhance the best features of the tetraploids as has been done with the diploids. It is concluded that the very limited picture presented by the two chimeras gives only an inkling of what can ultimately be achieved when many fertile tetraploids become available.

Only a very limited breeding program was possible with the chimeric stock available in 1966. All blooms were selfed, giving one seed pod containing a single seed. This seed germinated and appeared to be growing well, but began to wilt from top down and eventually died. Genetic incompatibilities may have been involved. This suggests that problems can be expected in obtaining fertile tetraploids. One seed pod was also obtained by use of the polyploid pollen on diploid pod parents, but no germination was obtained.

It is anticipated that vegetative offsets of the chimeras will bloom during the 1967 season. Hopefully, complete polyploids might be found among this progeny. This could result from offsets being formed on sectors of the original plant (rhizome) completely polyploidized by the colchicine treatment. Hence the 1967 season is eagerly anticipated; also, about fifty other colchicine treated plants should bloom for the first time. Meanwhile the work continues on treatments of clonal varieties and seedlings in the hope of producing many fertile tetraploid Louisiana irises for the future.

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1967 INTRODUCTIONS

CHIM CHIM CHEREE (1967) No. 150 (GALILEE x ALLEGIANCE) X ELLEN MANOR. 30". A medium blue, the bluest seedling we have bloomed to date. Well-branched stems produce 8 or more buds, and provide a long season of bloom. One of the first blues to bloom in our garden, it is still flowering at the end of the season. Vigorous grower, newly set plants produced a bloom stem and four increases for us, the first year. Sets seed easily, but has no pollen. \$25.00

MARQUESAN SKIES (1967) No. 81 (ARCTIC FLAME sib. x BLUEBIRD BLUE) X FLEETA. 32". A pale violet with flaming red beard. Excellent substance, flowers last for four or more days. Well-branched stems produce nine or more buds, giving a long season of bloom. This has been one of our most satisfying parents when crossed with whites with red beards, blues, oranges and pinks. Gives seedlings with remarkably good substance; foliage and plant are healthy and vigorous. Rapid increaser and dependable bloomer for us. Very fertile both ways. \$25.00

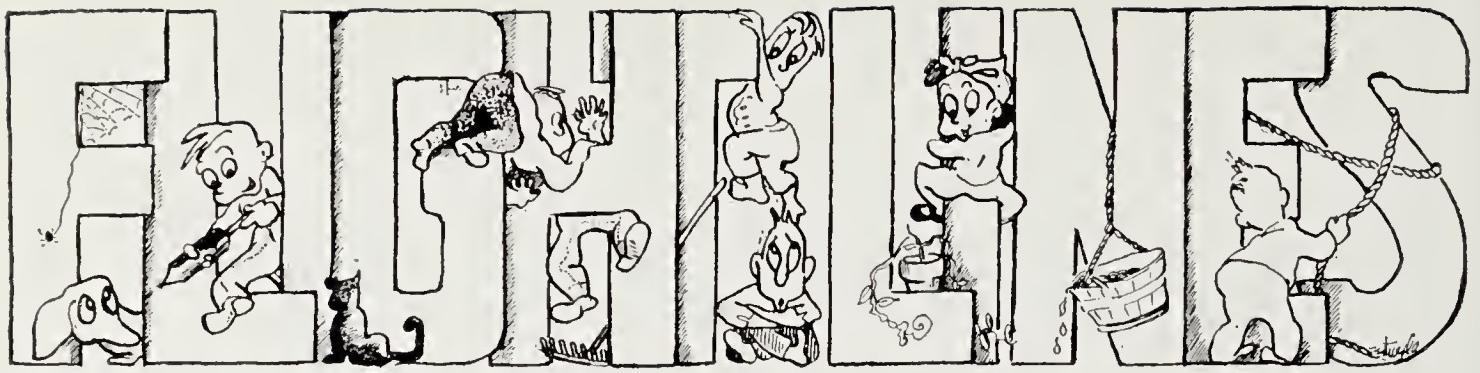
SUPERCALIFRAGILISTIC (1967) No. 80 (ARCTIC FLAME sib. x BLUEBIRD BLUE) X (MAY HALL x Fay 56-7) 35". This flower is not for the person who requires many buds on each stem. Only five buds, but the flower is so large and spectacular in our garden, we like it very much. A rosy lavender with pink beard, excellent substance, the flowers last four or more days, even in adverse weather. Very fertile both ways. The pollen parent of this flower has given us our best seedlings in lavender shades. \$25.00

All of the above have flaring falls, and standards which dome nicely, and do not pop open. We like to send extras, as we appreciate the opportunity to have our iris grown in other sections of the country. Therefore, if you should send us an order, please tell us which, if any, of our iris you may now be growing so we do not send you duplicates.

ANN AND CLARENCE BLOCHER

336 E. FOREST AVENUE

WHEATON, ILL. 60187



AIS ROBIN PROGRAM SECTION

PEGGY BURKE GREY, *Editor*
8191 Franz Valley Road
Calistoga, Calif. 94515

A Change at the Top

Flight Lines, which usually presents the scoops on news of what transpires in the Robin world, has been lax in not reporting it; but by now everybody knows that John Bartholomew has retired (but remains Chairman of the AIS Robins Committee), and we have a new National Robin Director. His name, of course, is Bill Krasting, and through his delightful drawings is already a familiar personality to AISers.

Many newer members of the Society may not be aware that the Robin Program was designed and instituted by our recently retired Boss Robin John back in 1957. A number of special interest groups and iris societies already had active robin programs, most of which enthusiastically affiliated with the new AIS Robin Program. John did a monumental and masterful job of organization, and of administration, throughout his long service to AIS and the special interest iris societies as our NRD. Working with him closely, as we were privileged to do, was sheer joy. He could meet the wildest sort of problems with brilliant solutions and amazing diplomacy. (We've always felt the U. S. State Department lost a notable talent when John chose a career in banking). With never-failing courtesy and thoughtfulness, and a wonderfully funny sense of humor, he developed a close-knit organization with real *esprit de corps*. No mere words can express appropriately the appreciation which the ranks of robin members, and his co-workers in the program, owe to John for the tremendous job he did. He's certainly well earned the extra leisure time his retirement will give him for his garden and photography hobbies and the lakeside summer home he and Hazel have acquired in New Hampshire. But, darn it, we'll miss him!

Bill Krasting brings into the program renewed enthusiasm and verve which will keep the robin activities humming right along on schedule. He's already made a couple of announcements of interest. Dorothy Spofford asked to be replaced as Chairman of the Siberian Iris Robin Division. Moving into this

NATIONAL ROBIN PROGRAM DIRECTORY

National Robin Program Director

Bill Krasting, 86 N. Kings Highway, Cherry Hill, N. J. 08034

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Barbara Serdynski, 3414 Ferncroft Rd., Los Angeles, Calif. 90039

Collie and Lillian Terrell, 926 Maple Ave., Wasco, Calif. 93280

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Walter Welch, Middlebury, Ind. 46540

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job will be Francis Brenner of Dakota, Illinois. Francis has been a longtime enthusiastic member of Siberian iris robins, and he will welcome applications for membership from those of you who would enjoy learning more about these grand garden subjects. His address is Route 1, Box 14, Dakota, Ill. 61018.

Another note of importance is that anyone wishing to join AIS robins devoted to either the Louisiana or the aril-arilbred irises should submit applications directly to Bill Krasting, 86 North Kings Highway, Cherry Hill, N. J. 08034. He will temporarily chair these groups until new division chairmen can be found for them. Bill also would be grateful for any volunteers to take on the directing jobs for either of these special divisions.

Much About Japanese Irises

With the rapid increase in popularity of the gorgeous Japanese irises, there is much interest in their culture and in information on hybridizing. Vay Sargo in Hot Springs, Arkansas, points out: "Surely Japanese irises do not bloom or establish as fast as TBs. If I plant here in fall (Nov. or Oct.) or early spring (Feb. or March), I get bloom that year. Then the plants establish and wait a year before blooming again."

Bob Swarengen in Terre Haute, Indiana, reports something that sounds exciting to anticipate, a reblooming Japanese iris. "I have one plant that has well developed buds at division time. I also have a plant that is quite early to bloom, and I will cross these two in an effort to produce a rebloomer."

Maynard Thaxter of Nehalem, Oregon, writes extensively on his experiences in growing and hybridizing. "Where I work they grow Japanese irises. All I can say is that they pay particular attention to first preparing the beds before planting. We till deeply for all new beds and put in plenty of rotted manure and humus. In some soils we add rotted sawdust also to make the soil more workable. We apply rotted manure only once a year, right after bloom is over. This works well here in Oregon, but may not work as well elsewhere in problem areas.

"If we see rot showing up, we take the plants up and clean them back to the roots and rhizome, dust them and the ground in which they were growing, with borax.

"We do not mulch for winter protection here as a rule. I do mulch some things with sawdust, however, even if nobody else does around here."

Maynard reports on his treatment of seeds, telling about two methods. "There may be easier and better reefer methods, but this works out for me. This goes for all iris seed, evergreen tree seed, hibiscus, yucca, mountain ash, sequoias, tigridias and ranunculus, etc.; in fact, all seeds which call for fall planting (Dec., Jan., Feb.).

1) Use a flat 2' x 3' x 6" deep; put in 80% sifted, rotted manure and 20% rotted sawdust; 2) plant the seeds in rows and cover them with about $\frac{1}{4}$ " of clean sand; 3) place the flat outdoors in a place protected from high winds; 4) cover the flat with 4 or 6 mil. clear plastic and tuck the plastic under the flat sufficiently so that wind does not blow it off. Leave the flats where they are until spring. I examine them once a month to pick weeds and to check germination; 5) as soon as I am quite sure there will be more freezing weather I take the plastic off and install lath screening on short stakes over the flats. In spring I use liquid manure which I make in an

old barrel. In constructing the flats, make a mouseproof screen of $\frac{1}{4}$ " mesh hardware cloth on a frame that sits tightly over the flat. You will note I do not use any soil in the flats; neither do I have to water them during the winter time.

"For the second method, for seeds planted at times other than in December, January and February, I use empty sardine cans. Put the seed in the cans and place in the freezer compartment, leave for three days, remove and thaw out. Then return the cans to the freezer for three weeks. Then after thawing out the last freeze, I dry them slowly until they are dry enough to pick up without sticking to my fingers. Then plant them in the flats as described before. Shade the flat at *all* times, especially after the seedlings come up."

"In general, and this is important, I sterilize my planting mix with Phono-Drench to prevent damping off *before* planting, and then again after germination if any sign of damping off shows up. These methods are routine, and work for me."

Others discuss their mulching methods. Bee Warburton, Westboro, Mass. reports, "At Kingwood Center they cover it all with ground corn husks. They have huge stacks of them in those parts where they shuck corn for the hogs. They call it hoe-gs."

Vay Sargo notes, "A mulch of 4" or 5" of newly dropped leaves (gum, hickory, oak, sycamore and other trees), sprinkled down to keep them from blowing away, is used. Under the leaves is trashy manure and under that muck soil. No Japanese irises dried and not one failed to multiply. All bloomed except one named variety. The mulch I use to hold moisture as well as hoping it will help acidify, and that the decomposition will make more humus."

Isabelle du Jardin in Addison, Ill., says, "Lots of humus in the soil is one of the big helps to grow good Japanese irises anywhere. I have been told these irises will grow in most any pH range soil if there is plenty of organic matter in it. I can't vouch for the absolute truth of this statement, but I have found that Japanese irises seem to prefer aged manure."

Eleanor Westmeyer in Stamford, Conn., has a note of interest. "Salt hay, a quite clean hay that doesn't break down very fast, makes an excellent loose mulch for all kinds of irises. I prefer pine needles when I can get enough of them, because these can be left in the beds. I only mulch my plants the first winter. Once established, they come through the winter safely."

Bob Swearengen tells about how he handles the problem of pests. "Moles, gophers and mice gave me a bad time for years until I found that if, after planting, I could spread granular dieldrin (5% strength) at the rate of $1\frac{1}{2}$ pounds absolute (that is, 30 pounds of 5%) per acre on the rows and beds, it would kill all of the bugs, grubs, Japanese beetles, etc., that infest the garden. This is about one ounce of material per square yard. Earthworms do not seem to be affected by it. With most of their food gone the moles, gophers and mice move over to the yard next door along with the birds that *you* fed last winter. Dieldrin is a poison, lasts from 3 to 5 years in the soil, and be warned: DON'T plant food crops where you have used it. Also wash your hands well after applying it or use an old flour sieve with the agitator and "pepper" it onto the beds. It surely ended my trouble and moles stop at the fence to my garden now."

Returning to the subject of seed germination for a moment, Eleanor Westmeyer makes an interesting comment about seeds that seem to take so long to germinate. "Orville Fay collected some tree seeds—a native paper birch—from a lakeshore in northern Michigan. The seeds did not respond to any of the treatments for germination. Finally he revisited the area, studied conditions, and decided that length of daylight might be a factor in germination. Seeds were then put under artificial light for 24 hours a day and they readily germinated. I wonder if this would work on some species with which we are having difficulties."

The subject of problematic pollen in the Japanese irises came in for discussion. Bee Warburton says, "I have a new low-power microscope; in the art of the crossing I do I need to know whether pollen is viable or not. A strange thing about the hybrid intermediates, 44 chromosomes, bearded iris pollen, is that it looks fluffy and viable; but for me it has never set a single pod in all these years. Also I have an awful time here getting any pollen from Japanese or Siberian irises. Nobody seems to know why, but it is hard, caked and brittle."

Bob Sweenengen suggests, "If you will bag the bloom from which you desire to take pollen in the early morning as the bloom starts to open, you will find nice, fluffy pollen in the afternoon. If you bag the bloom at that time it will be ready for pollen the next afternoon. All this is conditional upon there being no rain. Under these conditions and with temperatures of 90 degrees or less you should have about an 80% take."

Eugene Wagner in Newark, Ohio, reports his solution. "Concerning caked pollen, I gather stamens of varieties with stingy pollen as soon as the flower opens and place them in a warm, dry place. If the stamen fails to open I slit it into two segments as soon as it's gathered, and then place it to dry."

A Visit with Some Iris Personalities

Last spring John Dughi of Raleigh, North Carolina, took a trip to the gardens of two noted hybridizers and his descriptions are so fine you almost feel as if you'd been there too.

"Steve Moldovan is a very handsome bachelor, apparently in his middle twenties, very masculine, tall, slender, blond and suntanned. The Moldovan personality is indescribable, as he is the complete extrovert, and one is completely at ease from the moment one meets him. He was busy with the pollen when we arrived; yet he came in from his work to welcome us, told us to make ourselves at home and he would join us later. This plan worked out very well as it gave us time to view his formal garden at our leisure, and to make photographs and movies. When he had finished hybridizing he came in, gave us the grand tour of his formal garden, and then took us to his seedling fields. This dedicated irisarian, with the eye of the eagle and the speed and agility of a deer, has the ability to spot a mutation from any distance. In the seedling fields one is immediately aware that Steve is conscious of all conversation and everything that is going on; yet one also senses that this unusual brain, working like a computer, is constantly storing ideas in its memory bank for future use."

"Mrs. Moldovan, his mother, a most gracious hostess, also works in the gardens. She insisted that we lunch with Steve. We accepted, and had a

most delightful meal in the garden dining area under the shade of a beautiful tree that sang with oriental wind chimes.

"From the Moldovan garden we drove to Elmore, Ohio, for a visit with Don Waters. Here is a man who has lived and worked with the iris for more than forty years. His personality reflects a kind, gentle spirit, one that has lived with beauty and is at peace with himself and the world. We arrived at the Waters garden late in the afternoon and most of the blooms were spent. Elmore is a very small town without motels, hotels or tourist homes. Don very kindly made reservations for us at a motel in Woodville, which is about six miles distant, with the understanding that we would return next morning, view his iris and have breakfast with him.

"Don is an early riser and suggested that we come early. We were in his garden by 7:00 A.M. However, he had been looking for us since 5:00 A.M. The iris were perfect and so was the weather. Here we saw ROYAL TOUCH, to be introduced by Schreiner's in 1967, and his RADIANT LIGHT in all its glory. In the early morning hours as the sun hits this iris the domed standards actually glow. It is only then that one can appreciate this great iris, as within a few hours the radiance lessens and it resembles other well-known orange irises.

"At breakfast, which Don cooked, he talked to us of many irisarians. He related with much enthusiasm the details of an event that occurred some years ago when a youngster of about ten or twelve knocked on his door and asked to view his irises. He granted the request and went about his business. Some time later, looking out his window, from which one can see his entire garden, he saw the youngster still looking and making a thorough examination of the irises. Seeing such interest, he immediately went out and talked with the lad, who turned out to be Steve Moldovan. Don has great faith in Moldovan's ability, and is certain that he will be registered among the world's great hybridizers.

"He also told us many things concerning the growth of the iris hobby in America and the American Iris Society. He knows this history well as he has served on the AIS Board. We were extremely pleased with the invitation to breakfast and to talk 'shop' as we learned that the following great irisarians had been extended the same invitation and had eaten at the same table: John C. Lyster, Melba Hamblen, Bob Schreiner, Rhelin Cooley, Orville Fay, Harry Randall, Dr. Frank Galyon, Wickersham, Steve Moldovan, Bob Carney, Cliff Benson, and Clarence Blocher. This is the order in which Don recalled them from his guest book.

"After breakfast Don directed us to the garden of Miss Olive Bowman, at Woodville, Ohio. We were extremely fortunate as we saw the maiden bloom of Schreiners' T-1800-I. Don and Miss Bowman were quite excited over this seedling and decided then and there that it would be sent back to the Schreiners, as they considered it an iris of great merit. We also learned that morning that UTAH VALLEY was born in Don's guest seedling bed, and was later returned to the hybridizer.

"After viewing this garden, we returned to Elmore and it was with a bit of sadness that we said goodbye to this gentle soul in the golden years of his life, and his lovely wife. We are certain that her patience, understanding and encouragement has meant much to Don during their many years together."

Siberian Irises

A couple of notes about the increasingly popular Siberian irises are of worth. Francis Brenner, the new Siberian Division Chairman, reports exciting news: "Just received Siberians from Lucy Delany from New Zealand. These are MOON MOTH and NELSON BLUE. I believe this is the first shipment to the United States of these. They came by air mail and through the customs in seven days time, but MOON MOTH was a little dry." Lucy Delany is a noted New Zealand hybridizer, and her Siberian varieties have received much attention here.

And from England, Don Patton, another Siberian enthusiast, reports on the much-discussed hybrids from his fellow countryman, Maurice Kitton. "His new yellow seedlings are an interesting break, but not, I think, at all finished—hybridizer's material, I should say." The Kitton yellow Siberians, first of that particular color naturally have aroused much interest and many questions. Peggy Edwards, leading light of the Society for Siberian Irises in Massapequah Park, Long Island, New York, who had acquired some of the rare seedlings, recently reported their loss during a drought in her area.

Spurias

Possibly one of the most glorious sights in all irisdome, when it's behaving at its best, is WADI ZEM ZEM, probably the most noted of golden yellow spurias. Because of repeated complaints from various parts of the country that WADI is an erratic blooming variety, the experts frequently discuss it. Hear from Clarke Cosgrove in San Gabriel, California: "My WADI ZEM ZEM blooms well every year but never has a decent stalk at show time. It is true that offspring of WADI ZEM ZEM do not generally show this trait of not blooming every year, so it is up to someone to develop a WADI that will do better in colder climates."

Clarke also reports that he had only one grand opportunity to see the spurias outside of his own garden last spring. "That was on the regional trek to gardens in the San Diego area, particularly Walker Ferguson's garden. The allotted time was insufficient to examine closely his wonderful seedlings. I was impressed with DARK AND HANDSOME and RED OAK. He is certainly getting the greatest breaks among his seedlings." For those who've not noted the descriptions of "Fergy's" newest things, both DARK AND HANDSOME and RED OAK are deeply colored, the former a magnificent golden brown, the latter with definite red shadings.

Dora Clark, Danville, Virginia, reports, "Spurias need lots of attention. I use compost, well rotted manure and sawdust on mine. In the early spring I work commercial fertilizer into the beds. After the bloom season is over I give them a feeding of bonemeal. Last year was my first year with spurias and about 90% bloomed, including WADI ZEM ZEM."

Ida May Ezell reports the problems of an iris season in her El Paso, Texas, garden. "Our plants looked awful for so long; it seemed we would have no flowers at any time. When the wind leveled off they simply outdid themselves, but too late for early shows. When we have a late cold spell, we find early, midseason and late varieties all bursting their buds at the same time. Some varieties were not at all unusual; some bloomed down

near the ground, but all bloomed, and were large with good color and substance. During the blooming season the wind howled day and night; there were no seed pods on bearded irises, a few on the spurias. The blooms were better spaced and for the first time I had as many as six blossoms on the spurias. Heretofore four was the limit."

Ida May also comments on adaptation. "Several years ago I dug up heavy clumps of spurias, taking them to the mountains, planting them in a little draw where I hoped to be able to stop a wash when it rained and the dirt was being washed away. Later I was able to find the irises had grown and multiplied. So something will adapt to other locations. The mountains are a hundred miles away from El Paso."

Edith Cleaves in San Jose, California, repeats the warning which is an essential with all beardless irises. "When transplanting spuria divisions, do remember that they *must not dry out*. Plant them immediately; keep them shaded and watered for at least ten days."

Since a great majority of gardeners don't hybridize and find the subject somewhat complicated, Clarke Cosgrove gives an explanation which helps somewhat to understand how new varieties are derived. "Plants raised from seed from hybrid plants will differ among themselves and from the parent varieties. Only plants of species give seedlings that resemble the parents and even these exhibit some variation. The new varieties are selected seedlings. Those of us who hybridize and grow plants from seed know that you have to grow hundreds of plants to find one that is different enough for introduction. We keep trying in hopes of a lucky break." This, of course, holds true for all irises, and in fact for all plants.

International Reports

Some most interesting robin reports come from Charlotte Gantz's International flights. Let's hear from Lucy Delany in New Zealand.

"We had a film on Canadian wheat, and the theory they gave for such a wonderful crop was that because the land was under snow all the winter, and therefore dry; the food properties were not leached out of the soil as they would be in places like ours where the ground is wet for months. So I gave the dwarfs, especially the pumilas, an extra early dose of superphosphate as a trial, plus watering more than usual over the last week or so. Whether or not this has anything to do with APRIL MORN showing signs of behaving better than usual is hard to say, but it is a reasonable guess."

Gladys Watson in England reports on the widely discussed product Simazine for weed control problems. "Used Simazine and sprayed it on with one of those sprayers using a concentrated mixture that is attached to the end of a hose. With a light plastic hose these are easy to use and do little damage. Apart from labour-saving, my garden is much better this year than I have known it before. I am having a better flowering season than ever before and the only thing I can put this down to is the fact that (1) the plants have not had to compete with weeds for the nutrient in the ground and (2) they have not been perpetually disturbed, and had their roots disturbed at the wrong times by having weeds removed around them. In heavy soil that does mean *disturbed*. One final note of warning: I think the Royal Horticultural Society Journal warned about applying Simazine in the hot part of the day,

owing to chemical action taking place with chlorophyll in plants. This action damages the leaf."

Lucy Delany adds some of her notes on Simazine. "It gives better results on ground that has been dug in comparison to that which has just been weeded. Deep-rooting weeds such as docks and members of the dandelion family appear to be able to keep their roots out of reach of the spray. It has no effect on couch (worse luck) and though it does not kill sorrel, it makes it look anemic and appears to restrict its growth."

Don Patton in England comes up with an interesting cultural discussion. "Certainly we can transplant irises at any time of the year, but very frequently they stand still until after the bloom season. My solution for this is to plant the rhizome in a clay pot; probably because the pot is filled with a good friable compost the plant usually roots well and can be planted out into the bed after a month or two. In other words I'm agreed with those who say that in a still soil the side roots of an iris will not grow. I don't suppose that pots are necessary; it should do if a reception bed is prepared with a really loose soil—leaf mould is very useful for this. I have found no trouble at all in establishing plants which are taken out of a clump at flowering time. Though the rhizomes usually have no roots at all, they are soon developed if the plant is put into soil that is kept moist and the plant is supported by sticks so that it does not rock in the wind."

Also from England, Ron Watkins reports, "Another test I did this year was to plant out the late seedlings (July-August) into 2" holes, 9" apart, in a sheet of butyl rubber laid on flat ground. (The sheet is like black polyethene, only 100% tougher). Normally the late seedlings get swamped by the weed growth and get wet rot and disappear by spring. Using this method I lost none, and no weeding. The only necessity was a good dose of slug bait under the sheet. I propose to use this method more this year. The holes are a bit too small. Three inch holes would give more room for the rhizome to branch."

Trying to grow various small bearded species irises in different parts of the world, and in different parts of this country, poses many problems. Gladys Watson reports on a clone of *I. rubromarginata* she has had luck with and of treatment of a related species. "The clone of *I. rubromarginata* has never been moved but grows in the type of alluvial soil that looks at least 70% pure gravel and the rest poor soil with leaf mould added. In other words very sharp drainage. As a consequence I have now moved my *I. mellita* plants to the 50-50 gravel chips and compost mixture that I have moved my *I. aphylla* and THISBE into. I didn't get flowers this year, but I certainly had my hopes raised for next year. The plants have grown out of all recognition. I am working on the principle that the gravel chips provide sharp drainage that everyone insists is necessary for irises, but also they provide a very free root run. The more I read, the more I am coming to the conclusion that iris roots must be able to grow freely in loose soil; the fibrous side roots are not tough enough to penetrate a non-friable soil."

Lucy Delany remarks, "I replanted my dwarfs once in practically pure leaf mould and they didn't like it at all. They didn't seem to have anything for their roots to grip. I find that anything with *I. pumila* blood responds best to being planted in good firm soil."

Ron Watkins reports on a seed germination idea. "There was an article in the Royal Horticultural Society Journal, November 1965, by a Californian. He germinated difficult seed by putting it on a brass wire mesh screen and trickling water across the screen using a slow drip. The screens were stacked one above the other and he got 100% germination. The water washed out the inhibitors and the traces of copper from the brass prevented damping off. He used about 200 mesh (*i.e.* fine enough to retain the seeds) and ran the water until the plants germinated (several weeks)."

On Virus

Syd Lawrence in Australia remarks, "I have always read and understood that virus is not transmitted through seed. Recently, however, I read a report from a Russian source that a professor working on this subject had detected virus in seed, but I have not heard any confirmation of same."

Marion Schulz in Michigan replies, "It is possible that virus may not be transmitted to offspring as such, but simply that the gene for susceptibility to the virus is what is transmitted. It is a fine line of distinction, because viruses are so infectious that a susceptible seed may contract the virus early. Much new work is being done on viruses and biologists' ideas are constantly changing. It's a good idea to attempt to build up immunity, but I'm afraid it won't work unless viruses stop mutating. Viruses are very specific, true; but they mutate almost as badly as staphylococcus which causes a common cold. Therefore, if an iris has an immunity to a certain virus, the virus may undergo a slight change and be able to live on."

Flowering

The International robin discusses this subject to produce some worthwhile reports. Marion Schulz says, "Flowering is one of those phenomena which is explained in very nebulous terms in my plant physiology course. Flowering is due to a hormone, but they don't know for sure which one or combinations of ones it is. Right now, for purposes of expedience, they refer to this hormone as 'florigen', although they know nothing about it. The hormone usually is produced in the leaf."

"I have just finished learning how length of the night is most critical. According to my teacher, however, as plants grow older they may lose their dependence on environment, and flower anyway. I think he was probably referring to trees more than to anything else, though. Flowering is triggered by an unknown hormone, which is triggered into formation by environment."

Ron Watkins takes this up and asks about moving irises across the equator. "If night length is the trigger how does the plant differentiate between spring and autumn? There must be some secondary mechanism there. The following are some of the possibilities: a) The plant can detect whether the night is getting shorter or longer. b) It can tell that the weather is warmer or colder. c) It can tell that it has just had a long cold spell or a long hot spell. d) It hasn't the strength to bloom twice in one year so having started in the spring it carries on that way (not very plausible). I personally rather favor (c) but I can't prove it."

Marion again, "The plant can distinguish between spring and autumn in this way: in spring every night is shorter and every day a little longer, while in autumn every day is a little shorter and every night a little longer—therefore, I favor (a) of your possibilities. The longer day gives the plant more time to produce food—you know, photosynthesis—and more food could cause the blooming reaction, *i.e.*, the plant has grown to its best and now wants to reproduce. That's all blooming is—the stage for reproduction. For fall bloomers they would bloom because they are getting less food per day and they must reproduce before dying, so they bloom."

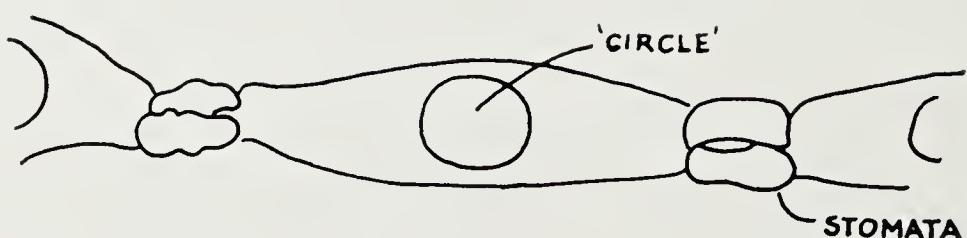
"You're right about the trigger mechanism for flowering being messed up by the 'mongrelness' of most of the irises. I think with any highly hybridized flower you'd have trouble, especially if the parent flowers had bloomed at different times."

On Iris Stomata

Marion's project with iris stomata has been followed with keen interest. Here's her latest report on it.

"I have about 124 varieties and species which I am investigating. I have done about 35 of them—all of the species and some of the widely different varieties. There are very obvious differences in species—it is fascinating. TBs have big stomata and a certain pattern. Japanese irises are 'funny-looking.' They have very fat epidermal cells, while most irises have long thin cells. It is very easy to see the epidermal cells of an iris. All you need is a microscope, a slide and cover slip, and nail polish. Simply take a leaf, wipe it clean with a cloth (to take off insecticide, etc.) and apply nail polish fairly thinly but smoothly—the width of the brush. Let it dry for five minutes and then peel it off (you may need a razor blade to start the end of the strip. This 'fingerprint' is then placed on a clean slide, and a cover slip is applied lightly. (I fasten the cover slip down by the edges with Scotch tape). It's a lovely system—best for seeing general patterns. When a leaf which is still transpiring is used, however, air and water bubbles are caught and distort the stomata size.

"My paper now has a title: *Leaf Epidermal Characteristics of Iris as a Possible Tool for Identification*. So far I have enumerated these differences: length and width of stomata, length and width of cells, shape of cells, presence or absence of 'circles,' size of circles. The 'circles' are the biggest mystery of the whole project. I believe I discovered them. Here is what they look like: (more or less)



"They are not nuclei, not deposits of fat, not anything I can think of. They usually appear gray. I'm planning (tentatively) to submit my complete paper to AIS BULLETIN so everyone can read the results. Maybe then someone would get interested enough to continue the work. I think I've probably raised more questions than I've answered. There's really more than just size of stomata concerned with separating irises into their classes. I'm also trying to see if the irises will divide into specific classes according to horticultural classes like TB, dwarfs, medians, etc. This has only been partially successful probably because of the mongrel origin of so many of the irises I have used. TBs seem to stay pretty definitely in higher classes, but some of the dwarfs have me all goofed up."

The foregoing reports on Marion's paper were written in November 1965 and in April 1966. Then comes a report from her robin letter in January. "In case you are wondering what the 'circles' were, I found out. Iris leaves are not absolutely smooth but have papillae and the circles were impressions of the papillae. Papillae are soft, slightly raised 'bumps' on the surface of the leaf." We do hope that Marion does present the paper to the BULLETIN for publication.

Cultural Notes

The various cultural methods reported by different growers in varying sections of the country always seem of interest. Here is an assortment to add to the collection of ideas.

From Oren Campbell in North Little Rock, Arkansas, comes the best bit of advice of all. "When we give advice on types of fertilizer to use, it should be taken with a grain of salt as the soils are so different in areas and their needs are so different, too. Some need lots of lime, and some areas have too much lime; so I believe one has to find out for himself what will work best in his own garden. A good soil testing kit and time enough to use it would be the best solution."

Bill Carter in Mitchellville, Iowa: "I use nothing but dried residue from the sewage disposal; let it dry and then run it through the compost shredder."

For borers, Peg Muck in Pittsburgh, Pennsylvania: "During a very bad spring the borers were growing. I really drenched my plants with old-fashioned fels naptha soap. I noticed on some of the plants that the chewing had stopped, which means it just might work."

From Edith Bauman in Davenport, Iowa: "In spring everything is given a good side dressing of all-around fertilizer. I like 5-10-10 or 6-12-12 at this time. At the same time I give all the plants a generous side dressing of bonemeal and those plants that like a sweet soil get some agricultural lime. Then I spray everything except the azaleas and rhododendrons with Rapid-Gro, a good insecticide and a good fungicide. After that I immediately put on about 2" of fine fibrous peatmoss. The weeds never have a chance. As soon as the spring flowers are through blooming, I go through the garden with another side dressing of fertilizer and bonemeal. Then again in the fall. I handle the irises a little differently; give them more room and mulch them with cocoa bean hulls instead of peatmoss; otherwise they are treated the same."

Winnie Coker in Holland, Texas: "We have found one fertilizer that just performs miracles for us here. It is a mixture of cottonseed meal, bone meal and superphosphate, using four parts of cottonseed meal to two parts of bonemeal to one part of superphosphate and a sprinkle of wettable sulphur."

Bea Williams in Colliers, West Virginia, came up with this: "I even fed mine skim milk, also some Alpo Dog Vitamins which I gave the violets, and it made *them* grow and bloom beautifully. The vitamins are water-soluable powder and have more minerals and vitamins than some that are made for human consumption, so I thought it might be a good idea to feed the irises this vitamin solution. I'll probably raise some dogs, too!"

To which Owen Campbell, retorts: "If your seedlings do turn out to be dogs, I hope their ears are like Boston terriers' and not like a coon dog's!" (Make them German shepherd ears, Owen. Boston terriers, like boxers and Great Danes, need surgery to make them so erect!).

No Dogs Here

Owen continues to describe some of his seedlings which certainly don't belong in Keith Keppel's famous 1968 convention Dog Patch.

"My 65-15E (POET'S DREAM X GLITTERING AMBER drew raves from the judges last year (1965) and was even better in 1966. I am about to agree that this is an outstanding yellow, and is now at a commercial grower for evaluation.

"The cross of GAY HAVEN X GARDEN PARTY produced so many nice things that it was difficult to know what to look at another year. I had two recessive whites (which I kept), pinks, yellows, from light violets to the color of GAY HAVEN. I saved several of the violets that had red beards. As GAY HAVEN is out of SNOW FLURRY, you can imagine the form and substance that I got.

"In a TOP O' THE WORLD X GLITTERING AMBER cross there was a medium blue with a deep burnt orange beard. BRILLIANT STAR X GLITTERING AMBER produced two that were especially good. One was the biggest amber I have ever seen; closed standards yet! The other had open standards that were white and the falls had a blue cast over an alabaster color. The beards were wide and red. As many do not like open standards, I decided to see if I could close its mouth a little, so I used CHAMPAGNE MUSIC, which may or may not produce the desired results."

(We'd like you reporters from the Advanced and General Hybridizing Robins Divisions to send in more reports as tantalizing as those Owen wrote.)

Another method of starting seeds was given by June Fraser in Lawrenceville, Georgia: "I planted my seeds in rectangular fiber planters after they had spent two weeks in the freezer. I used woods dirt, garden soil and sand, to which a blend of fertilizers was mixed in. The planters were then set in the coolest part of the greenhouse. In early January I noticed that dozens of seedlings were already up."

Pretty Pictures

For those who are just now pondering the planting of some companion plants to make the iris beds more attractive, here are a couple of ideas.

From Edna Gillen in La Junta, Colorado: "I have some monardas, red, pink and a fuschia red, planted at one end of the iris bed, and several dozen

alliums (they belong to the onion and garlic family), and I didn't have to do any spot spraying, so maybe they do help keep down aphids."

Mrs. Albert De Haan, in Wayland, Michigan, says, "I planted red aster and snapdragon between my irises and they were just beautiful all season. I also had a few mums mixed in, but do not recommend a plant with too much foliage."

Mrs. L. B. Kruth in Harmerville, Pennsylvania, describes TBs which make a pretty garden combination. "My clump of ONE DESIRE did look lovely centered between old CAHOKIA and the large evergreen with CLOUD DANCER on the other side, and ALLAGLOW was a blazing jewel."

NEMIS Tours Southeast Pennsylvania

BEE WARBURTON

Instead of its usual show, the Northeast Median Iris Society planned a garden tour which was a great success in spite of the late season and the cold rain which dampened Sunday's visit to Longwood Gardens. The meeting was planned and executed with the usual flourish by Charlotte Gantz, and the tour started at noon on May 13th at the Gantz's home in New Hope, Pennsylvania. In spite of frost the night before the standard dwarfs were well worth viewing; Charlotte grows them beautifully. A number of the later miniatures were still out; notable were FASHION LADY and GOLDEN CUPID, both clear yellows with orange beards. GOLDEN CUPID is newer and brighter, near orange-yellow with a perky flare.

It is a long time since I've seen my own introductions looking so nice, including DELICATE AIR, which I rather regret having introduced. Others that seemed to have that extra something were SALETTA, fine clear yellow with dark red signals at the end of its yellow beard, an arilbred of Stanley Street's; LILLI-BLACK, neat and trim in sooty red-black; and DARK SPRANGLES in a large clump covered with deep violet flowers, to me brighter than "dark" and highlighted by a show of orange beard in the throat; CIRCLETTE, much the brightest of the violet plics; DARK FAIRY, also brighter than dark, a rose-violet with wide petals; SPRING FERN, yellow with white-edged falls; and LITTLE NANETTE, a deeper yellow of similar pattern; TONYA in an unusual pattern for standard dwarf of medium blue standards and magenta falls, with brown at the shoulders; DEEP LAVENDER, a bitone with pattern neatly marked out in penciled lines, as is the pattern of the bluer BLUE SPARKS, which has a lavender beard. BABY SNOWFLAKES is one of the larger standard dwarfs, with white flowers wide and ruffled, making a splendid garden clump; and BROWN-EYED KATIE is also large with wide yellow flowers marked with a heavy brown-veined pattern.

Charlotte's red seedling, #61-62C, which made such a hit last year at Newark, was again considered by the visitors distinct enough for introduction. It is a wide red on the brown side, with brown beard, and has excellent flare and personality. Earl Rider's deep medium blue standard dwarf, 63-866-4, seemed distinct, also. It is fine smooth color, wide and flared.

Charlotte had sandwich makings and cakes and coffee waiting in her comfortable living-kitchen, and we were glad to warm up. The Gantz "estate" is charming and fun. (What does one call a farm that has been converted into a bird sanctuary, a fossil, mineral and shell museum, a book-lover's paradise, a writer's hideaway, a hybridizers' dirt-garden—with Mercer tile in the lav, a plank titled "cat walk" up to the kitchen window, and a Conquistador's stirrup hanging by the kitchen fireplace?)

Afternoon was for the Pallette Gardens of Bill and Marilyn Newhard. Bill is the new NEMIS veep; he grows a number of median irises and grows them well. I hadn't seen ELISA BEE looking so lovely for a while, either. A beautiful iris growing here was LITTLE LANE, white of delightful form with gold halo and shoulders. LILLI-BRIGHT looked fine also, with creamy stands and clear yellow falls.

The hit of the visit here was a green seedling of Bill Newhard's, #716-1, from ZING X GRACE NOTE. The stands were yellow-green by the new RHS charts, 146D, which is quite green and quite deep in color. The falls were hard to read by the charts because of the blending of color, but were nearest to 152B, which is more of an olive tone. The beard was a violet-blue, nearest to 93D. This was our first experience in using the new fans and we were glad of Joe Gatty's fine color sense in testing them out. We found them adequate in iris color range, and the color patches generous and easy to compare with the flower color, and though they are somewhat awkward to carry around, the Wilson color volumes did not get carried about on garden tours. How about separating out the iris colors and putting them together in a single fan?

The evening's program in the George Washington Motel at Valley Forge featured slides from Alta Brown and Earl Roberts. As each of these hybridizers has a number of lines including pinks under development, showing of their work was viewed with great interest. Since Earl was married just at the start of his season, we were both pleased and somewhat surprised to see brand new shots of his 1967 seedlings. Looks as if Earl and Margie will make quite a team.

The slides were viewed by quite an array of brass, including two past-Presidents of AIS, John Wister and Fitz Randolph, and by a number of members of the local iris group, the Delaware Valley Iris Society, an AIS affiliate. Its President is Norman Clouser, a long-time Medianite.

Sunday morning's first visit was to John and Gertrude Wister's in Swarthmore, and here we would like to have got lost, with hours to study the collections of rare plant materials. We do feel proud that Dr. Wister has added our median irises as an edging to the walk below the house, along with some of the finest daffodils. Several of our hybridizers, Ruth Stephenson, Jack Goett, Irene Van de Water and I, saw our own originations blooming there beautifully on first-year plants. Our visit to Longwood was spoiled by the

rain and by a fruitless search for irises in bloom, but we didn't find the rock gardens where the standard dwarfs have been planted. As for the iris garden, since Longwood is such a magnificent museum-type showplace for all sorts of plants, iris people ought to do something about the pitiful collections of "*I. Germanica OUTOFDATE.*"

We had hoped to get to Earl Rider's garden in Easton, Pennsylvania, where he grows quality seedlings in quantity. The Van de Waters met us back at Charlotte's, hoping for a break; but the coldness of the rain discouraged us and eventually we gave up and dispersed homeward, but not without that one last look at the garden where Irene Van de Water's *FANNIE R*, an ariltype dwarf in bitone grayed blue, was blooming forth with more courage than its people.

The Northwest Spring Median Iris Meeting

GRACE PEDERSON

The Northwest Median Iris Society held their annual meeting again in Rex and Alta Brown's display garden near Kirkland, Washington. May 6 proved a little early for most intermediates, although there was a good showing of standard and miniature dwarfs. Our late, cool spring made bloom about two weeks late.

The meeting was an informal one, with much visiting and talking about irises and their merits, and a discussion of heights and possibilities.

ALPINE HALO is a lovely new one for 1967 from Alta Brown. The closed, broad standards are light lavender-blue. The falls are very clean and clear chartreuse, enhanced by a brown beard tipped blue. This round, wide, flaring flower is of typical onco form. Many buds give it a long season of bloom. *IRISH DOLL* is a cool looking green amoena. It is a parent of *GREEN LILT*, a standard dwarf, which has very broad, rounded, blue-green falls, and standards of ivory. The standards are closed. It is a nice, clean flower, with many buds and good growth habits.

At the meeting we learned that *LIME RIPPLES* had been made Queen of the Show at Albuquerque. We also learned that *ARCTIC Kiss* had won first place at Vienna as a SDB, *ARCTIC FANCY* first place as an IB and *ARCTIC MYST* third place as an IB.

Jean Witt presided at the meeting, and read the proposals as to heights of the various classes. After discussion and clarification by Jean, it was decided unanimously to accept these height standards. A program of color slides by Alta and Rex Brown followed the business meeting, after which a plant sale was held, which brought to the AIS Scientific Committee a fund of \$28.56.

On the same day the lovely *ARCTIC RUFFLES* was in bloom in my garden. It is a beauty, a light blue self, very ruffled, with many blooms open at once on a two-year clump. This iris has many buds and very fine growth habits.

TWO NEW BOOKS

Within the past year or so there has appeared on the market two new books which are valuable additions to the literature on irises. It is to be regretted that a few sentences on paper as a review cannot convey the real worth of these books.

Molly Price's *THE IRIS BOOK* (Van Nostrand) is an intriguing and well-written volume. Her brief paragraphs on the ancient history of irises left this reader with a yearning for more, and the illustrations of flower form are well done.

A mere tabulation of the chapter heads gives some inkling of the value of the book to the amateur, and even the expert: The World of Irises; In the Garden Picture; Tall Bearded, Border and Reblooming Irises; Patterns and Colors of Tall Bearded Irises; Culture of Tall Bearded Irises; The Smaller Bearded Irises; Aril Irises and Their Hybrids; The Eurasian Beardless Irises; Native American Beardless Irises; Bulbous Irises; Progression of Bloom; Diseases and Pests; Hybridizing Irises for Fun; People Behind the Plants; and Shows and Arrangements.

The book is well illustrated, with fifty-nine pictures, eighteen in color, and seven drawings. The reprint of the *Fresco* of the Priest-King from a wall of the Palace of Minos at Knossos, with conventionalized irises in this relief, painted nearly 4,000 years ago, fascinated this reviewer; and the drawings of types of root-stocks and bulbs and the one of seed pods are delightfully done.

We also especially like her discussion of companion plants for the iris border, a discussion that is likely to appeal to many backyard gardeners who try to keep a maximum of bloom through the growing season.

The book sparkles with information of interest to the amateur and the backyard gardener, and at the same time it offers intriguing challenge to one who has read as many thousands of pages on irises as has this reviewer.

Winfred Ross' *IRIS: GODDESS OF THE RAINBOW* (Diversity Books) is written in different format and different style. It is amply illustrated with six color pictures, twenty-nine black-and white pictures, and fifteen line drawings. The catchy titles of the chapters do not always tell the story of what is included in the book when they stand by themselves, so for the purposes of this review, we are reciting at times the substance of the chapter rather than the title: Aimed at the Amatur; Glossary of Iris Terms; Pests and Diseases; Mulches; Feeding; About Hybridizing; Good Companions for Irises; Awards and Gardens; Shows; Your Iris Pictures Folks in Iris World The Space Age Irises of Lloyd Austin; and All Kinds of Iris Information.

Gardeners always are interested in the people who are the WHO'S WHO of the flower world, and the chapter on *Folks in the Iris World* leaves one asking for more. "A canary judge . . . a former lawyer for AT&T . . . an architectural engineer," the chapter is replete with items of the Great in Irisdom. The story she tells on Cliff Benson is a jewel. These little-known sidelights on some of our foremost hybridizers make for interesting reading.

There are some good paragraphs on garden manners, and the descriptions of the Dykes Medal winners over the years make good reading. There are some interesting garden plans with companion plants, and a lot more interesting reading.

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On orders for any two or more (except 1967 introductions),
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1968: THE CONVENTION AND THE TEST AND DISPLAY GARDEN

ROY OLIPHANT

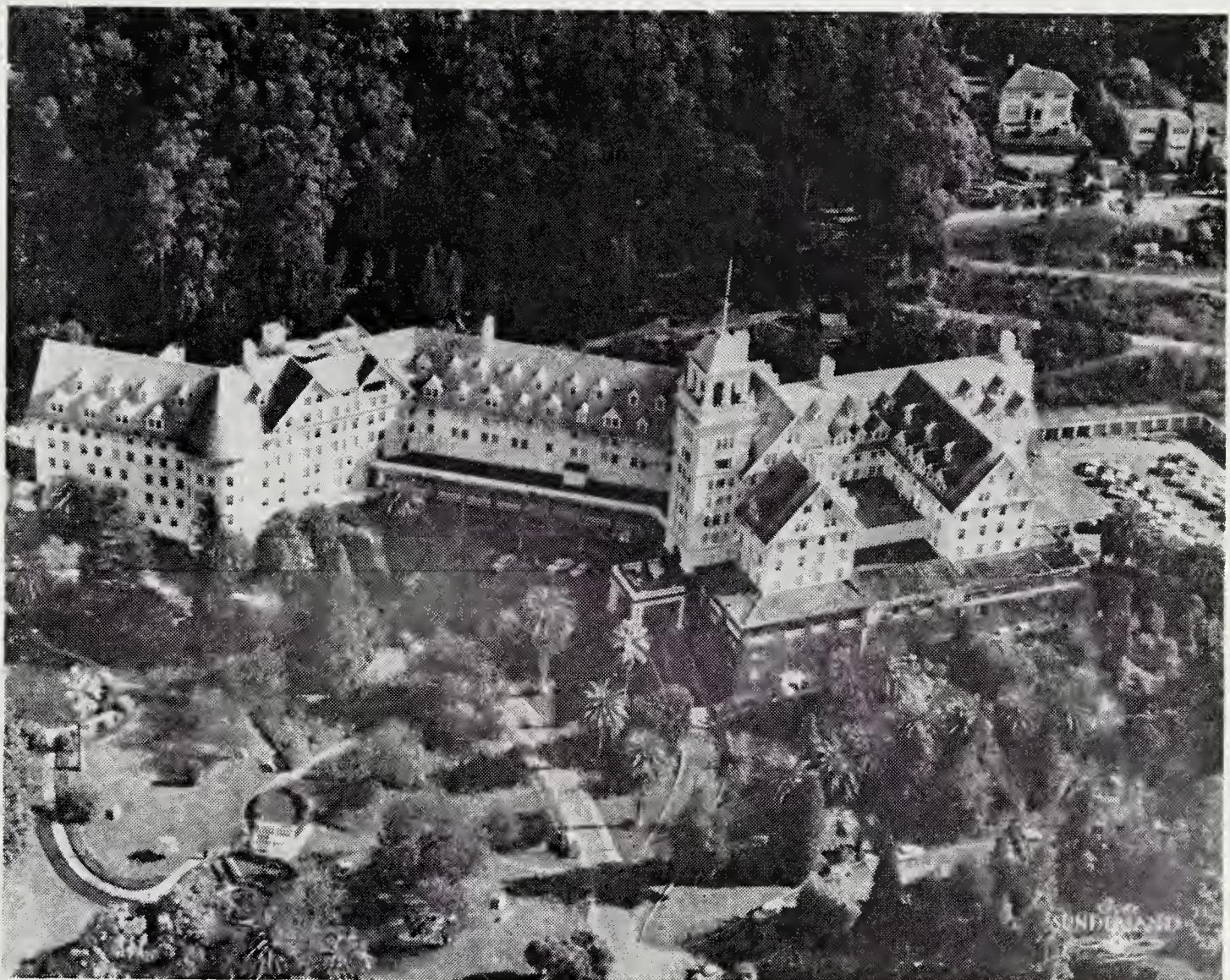
The Iris Test and Display Garden fights hard, and we believe successfully, not to be overwhelmed by its setting. The 1968 convention buses will wind far up Strawberry Canyon to where, in the awesome shadow of the Atomic Energy complex, the Space Sciences Building, the Lawrence Memorial Hall of Science, and other buildings dedicated to Tomorrow which dominate the surrounding hilltops, lie the twenty-four acres of the University of California's Berkeley Botanical Garden. Here, in the quiet of the Garden, has been assembled a unique collection of temperate and half-hardy plants arranged, as far as may be possible, in their natural groupings. Here, too, through the kindness of the University, is the Iris Test and Display Garden, maintained by Region 14.

Arriving at the entrance gate, with its now famous rattlesnake warning, we will bypass the extensive Californian area with plant associations ranging from woodland glade to serpentine outcropping; from vernal pool to desert slope. We will, though, drive between African Hill on our left, with its great variety of plants from South Africa, and the Cactus and Succulent Garden on our right. Here, on a continuation of the African Hill slope, will be found over five thousand species and varieties of cacti and succulents, many of them brought back from the University's seven plant hunting expeditions to South America. Continuing on, we will skirt the Rhododendron Dell, the foundation plantings of which go back thirty-five years to Dr. Rock's expedition to Tibet and western China. We will catch only tantalizing glimpses of the Eastern Asian, the South American, the Australasian areas, before arriving at the research area, in which the Test and Display Garden is located. On a steep slope (which has been partially terraced—to prevent an excessive loss of "Little Old Ladies" due to rolling down the slope and into Strawberry Creek) looking out at the Golden Gate, the Society is building a garden which we hope will not only be of interest to irisarians but which also will serve to demonstrate to the non-iris public the beauty and diversity to be found in irises. We say "building" advisedly because we hope that the garden will never be "finished," in the static sense.

In 1968 the Convention visitors will find here the Berkeley National Test Garden; the Region 14 Test Garden; and a Region 14 Hybridizers' Section, arranged in blocks, by hybridizer, where the latest seedlings and introductions of the region's hybridizers will be on display; a general tall bearded display; a dwarf and intermediate bearded collection; an arilbred planting of irises of the Clarence White type; Evansias (crested irises, such as *I. Wattii* and *I. confusa*); Pacific Coast irises and their hybrids; spurias; some species. There is an extensive planting of the W. A. Payne Japanese Iris introductions and of recently introduced Japanese irises by Japanese hybridizers. There is a Memorial Walk, honoring such former hybridizers of the region as Mohr, Mitchell, Essig, Salbach, Austin. The future will add Siberians and Louisiana irises and more species. With any luck at all, a number of

these non-tall bearded groupings should have bloom during the Convention. There will be plenty to see in 1968.

The University is celebrating its centennial in 1968 and joins us in extending to you a cordial invitation to come west to the Golden Gate in '68. The Convention tour that day will allow you all the time it can—to explore the Botanical Garden—but do plan, if possible, to come back "on your own." It will be worth it!



HOTEL CLAREMONT: Headquarters 1968 Convention

Come West Irisarians!

JOE CHIO

A cool ocean breeze kisses the evening shadows as you sit on the sweeping veranda absorbing the glorious, vibrant colors of a mid-spring California sunset. Before you lies the vast, dazzling panorama of the darkening silhouettes of "Bagdad by the Bay," San Francisco. Radiating outward across its magnificent bay, rise the glittering towers of the Bay Bridge, and across the fabled Golden Gate stand the twin towers of its world renowned bridge. This is just a very small sample of the view which awaits you at the Hotel Claremont, headquarters of GOLDEN GATE IN '68—the 1968 National Convention—the first ever held in this cradle of the development of the modern iris.



Bob Brown (kneeling), co-chairman 1968 National; and Vernon Wood, in charge of Claremont planting.

WAKEROBIN

Walker Ferguson's Eric Nies Award Winner 1966.

The Claremont Hotel, which straddles the Oakland-Berkeley city limits, is a picturesque anachronism in itself. It appears to be a transplanted bit of Europe. Located on a knoll, its many-gabled roof reminds one of a Rhine-land chateau. On the ample hotel grounds, the main planting of convention guest irises—over 800 varieties—is located. This fact will permit the conventioneer a unique opportunity: He will be able to view the guest irises at his leisure any time during the entire duration of the meeting. The delegate will be able to view irises as the mood strikes him and in an unhurried manner. He can also view irises over an extended period so as to truly evaluate them.

From Berkeley, a tour is scheduled to view gardens in the Sacramento area. Since the state capitol has an earlier season, the irisarian will be able to see a good cross section of the mid-season and late varieties. Another day of tours will take the convention-goer to the Walnut Creek area and thence to Stockton. In Stockton, at Melrose Gardens, the second main planting of guest irises is growing. Here the touring viewers will be able to see most of the same varieties as are in the Claremont planting; however, climatic conditions are significantly different. Berkeley has the typical cool, damp coastal California climate while Stockton has the warmer, drier California valley climate. It will be interesting to compare the same varieties growing under these different conditions.

Garden tours are also scheduled for gardens in Berkeley, San Leandro, Hayward, and Castro Valley. The conventioners will also visit the fabulous University of California Botanical Garden, location of one of the National Test Gardens. The Regional Test Garden, a display of local hybridizers'

originations, and various species irises are also growing here.

For the early arrivals or those who wish to linger after the meeting, you may wish to visit the Napa Valley wine country; the redwoods and beaches of Santa Cruz; and the fabulous Monterey Peninsula, including Carmel and Big Sur. All of these attractions are within 100 or so miles of Berkeley. Or just minutes from the Claremont, you can leave your heart in San Francisco.

In the San Francisco Bay Area many of the pioneer developments that made the modern iris possible were made with the work of Mohr, Mitchell, Salbach, and their contemporaries. They heard the cry of Horace Greeley, "Go West, young man." Region 14 now beckons in return, "Come West, irisarians!" We are waiting for you on April 27-30, 1968, and we are planning a "wingding" for you on the edge of this fabled golden land. It's GOLDEN GATE IN '68 or bust.

WISCONSIN IRIS SOCIETY PROPOSED GUIDELINES FOR PARTICIPANTS ARTS AND EDUCATIONAL EXHIBITS, 1969 AIS CONVENTION

We are endeavoring to create something new for our 1969 AIS convention to generate further interest in all types of irises and to show what can be done in various forms of art and crafts using the iris. The following ideas represent our current plans for the organization of the Arts and Educational Exhibits. We encourage any suggestions or comments you may have about the general organization of the exhibits and/or about your specific part in them. All entries in the exhibits will be submitted through the sectional chairmen. The chairmen for some sections have already been appointed and are listed on the final page. Other sections interested are urged to appoint a chairman and to contact us. We also encourage each specialty group to publicize the general information in these guidelines so that those individuals who may desire to participate will have adequate time to prepare and work with their appropriate sectional chairman.

Especially for the educational exhibit we wish to establish a working plan of organization and a general uniform format as soon as possible, thus allowing adequate time for all sections to plan and execute their contributions. We would therefore appreciate your comments and suggestions at our current stage of planning.

ARTS AND CRAFTS EXHIBIT ART WORK

There are many media to work with in this category: oils, pastels, water-colors, temperas, inks, dry brush, collages, etc. These can be done in realistic form or in any other form or design in which the iris form is recognizable, e.g., the Fluer-de-lis depicting the form of an iris.

All art work shall not exceed 18" x 24" in size and may be framed or unframed. All art work will be hung on artistic wall boards. A minimum of 50 feet of display panels 46" high will be available. This is broken into individual panels of various widths. Actual space allotted to each group will depend on the popularity of the type of iris and the interest expressed by

the respective participating sections, such as tall bearded, medians, miniature dwarfs, arils, spurias, Siberians, Japanese, Louisianas, etc.

ART-CRAFT

The following are some suggestions for this category, but the list is not intended to be limiting. Any art-craft work embodying an iris design is eligible.

Ceramics: Work in various forms of clays, such as pottery, plaques, tiles, etc., using the iris as a design.

Woodcarving: Carvings of plaques, woodcuts and prints thereof, inlays, etc., using the iris as a design.

Etchings: On metal and paper prints thereof in black and white or color.

Weaving: Small rugs, cloth, scarfs, etc., with iris or iris design woven into them.

Block Prints: Method of cutting iris design on blocks to be used as stamp to put design on cloth.

Metal: Putting iris design on metal containers, embossing on brass, copper, or aluminum or other forms.

ALL MATERIAL SENT MUST HAVE A NAME AND ADDRESS LABEL ATTACHED TO THE WORK. ALL WORK MUST BE COMPLETED AND SENT TO ME BY FEBRUARY 1, 1969 POST OR EXPRESS PAID.

If you have work of great value, it is your responsibility to insure your work. We will not be held responsible for losses or damage, but will exercise every effort to protect the entrants' property. All valuable craft will be behind glass.

Please notify us as early as possible what you will send so that we can arrange space necessary for the various sections, and specify if you wish to have your work returned or to be donated to the Milwaukee County Park Commission to be used in succeeding years for exhibits. All work to be returned will be shipped back to you post paid. Participation in this exhibit is open to all AIS members, so don't withhold your talents and let's hear from you.

EDUCATIONAL EXHIBIT

The educational exhibit will consist of two sections: a slide program and a wall-mounted display section.

Slide Program:

It is our hope to have equipment set up to show a continuous slide program. We anticipate a capacity of 80 to 100 slides. Each participating group will, hopefully, submit about 15 slides representative of their respective specialties. These slides will be expected to be of excellent photographic quality displaying the subject clearly and in accurate color. Each picture should also contain clear identification of the subject—we would appreciate suggestions on this problem. The Arts and Education Committee reserves the right to edit the slides and omit any it feels are unsuitable or redundant.

WALL DISPLAY

A minimum of 30 feet of display panels 46" high is available. This is broken into individual panels of various width. Actual space allotted to each

group will depend on the popularity of the type of iris and the interest expressed by the respective participating section.

Printed material for the display should be very concise. All such material should be typewritten and submitted in duplicate. The material will be lettered by us on 14" x 18" display cards.

We encourage the submission of color photographic prints, preferably 8" x 10", but no smaller than 5" x 7". The accompanying text should be brief enough so that photograph and lettering can both fit onto a display card no larger than 18" x 24".

For display purposes we feel that an artificial background in the photos is desirable, e.g., black velvet for lighter colored flowers and a light neutral material for darker flowers. We recognize the difficulty in obtaining true colors in prints, but feel that every effort should be made to do so.

It is hoped that the display covering tall bearded irises will include the general cultural requirements for these irises. Other displays will then not need to duplicate this material, but only give general requirements relative to the TBs, e.g., "The arils and arilbreds generally require better drainage than tall bearded irises and prefer dryer summers."

Since hybridizing cannot be separated from iris growing (except by those rare individuals who are able to resist the temptation), we feel there should be one display covering the subject in general. Unless someone wishes to volunteer, the Arts and Education Committee is prepared to undertake this task itself. Here again the separate displays need only refer to the specific differences involved, e.g., greater likelihood of self- or insect-pollination unless precautions are taken; greater difficulty in germinating seeds.

Charts and illustrations to be included in the display should be submitted on cards not to exceed 14" x 18" or in a form suitable for mounting on such cards. It is anticipated that all displays will be two-dimensional. If, however, anyone wishes to include in his display materials that project from the wall (e.g., an actual seedpod mounted on a board or a relief model of an iris flower), we encourage him to contact us through his section chairman and present his ideas.

As with the arts and crafts entries, ALL MATERIALS TO BE INCLUDED IN THE EXHIBIT MUST BE SUBMITTED BY FEBRUARY 1, 1969.

While we cannot guarantee the return of materials submitted, we will endeavor to return all material that is clearly labeled to be returned. Because the Milwaukee County Park Commission is "going all out" to assist with this convention, the Arts and Education Committee would like to give the Educational Exhibit to the Park Commission for use in succeeding years. We feel that we will thereby assist the Park Commission in its educational program, and continue to promote interest in our favorite flower through the succeeding years. We hope, therefore, that each group will allow us to retain as much of their material as possible.

Anxiously awaiting your comments
and suggestions,
The Arts and Education Committee

Robert M. Reinhardt, Chairman
14151 W. National Avenue
New Berlin, Wisconsin 53151

Kenneth K. Kidd, Education
Ramona Blodgett, Arts

Sectional Chairmen:

Tall Bearded: Ed Varnum, 550 S. Princeton, Villa Park, Ill. 60181

Median Iris Soc.: Mrs. J. A. Witt, 16516 25th St. N.E., Seattle, Washington 98155

Spuria Iris Soc.: Co-chairmen: Clarke Cosgrove, 8260 Londen, San Gabriel, Calif.; Ben R. Hager, Rt. 1, Box 466, Stockton, Calif. 95205

Aril Society, Int. Co-chairmen: Mrs. C. R. Foster, 321 E. Montecito, Sierra Madre, Calif. 91024; John Holden, Rt. 1, Box 3770, Ridgecrest, Calif. 93555

N. T. WILLBANKS

1967 *Introductions*

ON HIGH, TB 54". (CHAR-MAIZE X WHOLE CLOTH). A beautiful outstanding white with very large, wide and ruffled flowers on a tall well-branched stem that stands up to the weather \$25.00

ARIL BLACK, Arilbred, 28". (KING HENRY X BLACK JOPPA). One of the blackest of the arilbreds. Standards port wine veined darker; falls purple-black, darker in the center. Excellent aril form; fertile. \$20.00

SALAAM, Arilbred, 32". (IMAM AHMID X KALIFA BALTIM). A beautiful arilbred bicolor with standards of lilac, deeper lilac veining and falls of old gold washed with deep purple-red and a deep purple-red signal. Fertile. \$20.00

SUNSHINE SYMBOL, Arilbred, 32". (TATAI PASHA X IMAM SALAH). A bright greenish yellow flower with a distinctive red-brown signal. Fertile. \$15.00

EMBLEM, Arilbred, 15". (BORDER QUEEN X IMAM SALAH). A little jewel of a flower. A large dark red signal on a strong yellow self with onco marbling of moderate red makes this a very attractive flower. \$10.00

N. T. WILLBANKS

RT. 1, BOX 272

GLENN, CALIFORNIA 95943

NEW INTRODUCTIONS FOR 1967

APOLLO'S GIFT (R. Blodgett '67). ML. 34"\$25.00 net
Sdlg. 63-33. (RAINBOW GOLD X ILLINI GOLD). Aureolin yellow (Wilson 3/1) self; yellow beard; laced and ruffled; three-way branching with good placement of flowers. HC '66.

REDWOOD EMBERS (E. Blodgett '67). M. 38"\$25.00 net
Sdlg. 62-87A. (STORM WARNING X BAZAAR). Garnet-red self, brown flush at haft; lavender beard; well branched and flared. HC '66.

BLODGETT IRIS GARDENS

1008 East Broadway

Waukesha, Wis. 53186

VARIETAL COMMENTS MITG

EARL ROBERTS

ARCTIC FANCY. (IB. A. Brown '65). In the same color range as Rococo; violet stitching on white ground with falls showing some violet veining, 18". Two branches, four buds, flower quite large with wide petals; almost too large as flowers tend to bunch, although stalks may have been shorter than normal due to several frosts.

ARCTIC MYSTERY. (IB. A. Brown '64). 18". Standards light lemon, slightly cupped and open; wide semiflared falls white centered with edge of lemon; beard pale blue turning to gold in the throat.

ARCTIC ROSE. (IB. A. Brown '64). 22". The best and almost the only IB in this color. Good wide form; color a deep rose on the purple side, amber hafts, dark orange beard. Two branches with four buds. Very fine.

CHIT CHAT. (IB. Hager '64). 20". Very clean white edged orchid-purple; beard white, two branches, four buds.

CUTIE. (IB. Schreiner '62). Not new but is the only iris with this color in any class. Clean white with turquoise whiskers on the wide falls. 20" tall, one branch, three buds.



NYLON RUFFLES



PINK AMBER

DOLL TYPE. (IB. Hager '64). The smoothest plicata yet seen in intermediates. Domed white standards and flaring white falls are both edged rosy purple, deeper color at the hafts; styles purple; beard off white. 20". Two branches, four-five buds. Excellent.

EBONY EMBERS. (IB. Brizendine). About the nearest to black we have ever seen in this class. Standards darkest violet; falls same with blackish flush; wide petals; narrow purple beard.

FROSTED CUPS. (IB. Warburton '66). A frosty milk white self. Standards cupped; falls wide and flared; large flowered; some chartreuse lines at the neat lemon beard.

GADGET. (IB. Hager). 16". A very fine wine-purple self with a bright blue beard. Three buds.



BLUE HORIZONS

Painted by Mary K. Dugan,
Columbia, South Carolina
Irisarian and Artist

Irides inspiring the painting:
BLUE SAPPHIRE, PACIFIC PANORAMA,
BISCAY BAY and SYMPHONY

Deborah Rundlett and DEBORAH R.

IRIS CLINIC

From Melba Hamblen: As far as possible, in the late fall I drench plants with a Terraclor/Natriphene solution, hill up soil around each plant, and mulch with evergreen branches plants which I especially want to see in bloom the following spring. Of course, it isn't possible to do all of these things to the entire planting, but display beds and especially guest irises receive the full treatment. Things of lesser importance have soil hilled up around them. Seedlings receive no extra care, inasmuch as I believe that they should be tested as thoroughly as possible while they still are seedlings. Preventive measures are practiced at other times, such as dusting plants with Terraclor before planting and using gypsum when planting, etc. Actually, I don't do anything that I haven't learned via the BULLETIN or from catalog "cultural tips."

Bob Young writes that he is experimenting with a non-poisonous insecticide, a product made from the diatomaceous earth such as is mined in the Lompoc area. The belief is that the "dust" is non-harmful to human and other warm-blooded animals, but is lethal to insects. If this one works, it surely will be a boon.

Mrs. Paul Hatcher writes that the soil in part of her W-shaped border was particularly difficult to deal with, and that she got little bloom in the area. She applied Sea-Born, placed excelsior over the crowns, and applied barnyard manure over all in a generous supply for mulch. When she removed the excelsior in the spring, she found that it had kept the mulch from smothering the crowns, and there was no loss nor evidence of rot or heaving. The fertilizer was forked into the soil surrounding the plants, and two more spray applications were made. The plants gave abundant growth and bloomed equal to the rest of the garden. She is convinced that this treatment plus generous application of water licked the problem of her trouble spot.

G. B. Gable writes that Carco-X no longer is being manufactured, but that he believes that Terraclor 75% is as effective for stopping soft rot, and that he thinks that it is the best product he has used for the control of crown rot (mustard seed fungus). He uses one heaping tablespoonful of Terraclor 75% to one gallon of water, and stirs. After scraping the soft rot out of the rhizome, he saturates both the rhizome and the soil around it with the solution.

THE OFFERINGS OF
Maple Tree
Gardens

*Featuring the Latest of
Tall Bearded Iris Introductions*

Catalog on Request

**LARRY L. HARDER
Ponca, Nebraska 68770**



MARSHMALLOW (M. Olson '67)

FRAN JENNINGS (Goett '66) SDB. Beautiful pale blue standards, blue-based falls overlaid green with pale maroon and olive blended area around pale blue beard. The effect is of a blue and green bicolor. Lovely ruffled form, arched falls, and a good grower.

FI-LEE (Greenlee '63) SDB. Rose standards, darker rose falls with edge the color of standards. The color is a welcome change of pace. Good grower and provides a long showy bloom.

WEE REGGIE (Peck '61) SDB. Bright and showy yellow ground plic with red stitching. Very fine performer and puts on a show that attracts every eye. Not at its best on the show bench as it tends to be floppy when cut, but a real gem in the garden.

SAIL AWAY (Peterson '68) SDB. Lovely light blue self with a white beard. Color holds well and is applied evenly. Receiving good advance notices which are much deserved. Full rounded flaring form. A really beautiful iris.

DEMI (Stephenson '66) SDB. Creamy warm white with a hint of yellow in the throat. White beard. Lightly ruffled, beautiful semi-flaring form. In some soils will display a slight green wash in the falls, but it was not evident here.

DREAM MAKER (Roberts '64) IB. Ruffled pale yellow self, with a white area below beard. Nicely branched with a long season of bloom. A pleasure to grow with good increase and lots of bloom stalks.

MAROON CAPER (Warburton '64) IB. Beautifully branched deep red-violet. Good show stalk in the intermediate range with two flowers opening at once. Closed standards, wide velvety arched falls. A beauty.

COLORAY (Plough '66) IB. Flaring blue-white with a light blue diffused ray pattern on the falls. A little short on a first year plant, but nicely branched and flowers take the weather.

ELFIN ERIN (Roberts '63) IB. Dark greenish brown standards, even darker greenish brown falls, and an orange beard. Not everyone likes the color of this, but there is no mistaking the green in it. Pebbly texture, nice form, good grower.

LE SABRE (Plough '65) IB. Light yellow standards, full violet falls. Good show flower, holding color well in artificial light. Fine grower with good branching. One visitors admired.

Varietal Comments

MILDRED BRIZENDINE

The outstanding standard dwarf varieties in my garden that added beauty, color, a long blooming season, good form and personality were:

SKY BABY (A. Brown) and **BOUFFANT BABY** (A. Peterson) are two excellent blues. They are a must in every garden.

BABY SNOWFLAKE (A. Peterson) is a delightful white, tall and above the foliage, with pleasing form; white **DAINTY DELIGHT** (J. Gatty) is almost identical except smaller in size.

GOLDEN FAIR (B. Warburton) is still the best yellow, without a doubt. It is well above the foliage and its brilliant color and form and long blooming season make it superb.

GRACE NOTE (M. Hamblen), while not a perfect form, is an improved **EASTER HOLIDAY**. That violet-blue beard on such vivid yellow is stunning.

BLONDE DOLL (J. Goett) is the smoothest light yellow with perfect form, and is restful as well as beautiful. It took several years for it to adjust to my garden.

SHINE BOY (M. Brizendine) is a very shiny near black of fine color and form.

W. Greenlee has given us FI-LEE, a rosy lilac, which is different from anything ever seen. Guests rave over it the first thing.

Moonblaze (A. Peterson), a most unusual color of sandy gray with a blue blaze, is not showy nor dull, but different, and adds variety to the garden.

"Round" describes HONEY BUG (Zickler), which is a pale yellow with white falls edged in yellow. A lovely form.

Comments on Newer Dwarf Irises

ALTA M. BROWN

MINIATURE DWARFS—

ALREADY: A beautiful velvety maroon-red with domed standards and wide flaring falls. The rich, smooth finish is set off by the lavender-blue beard. Grows 7 inches high.

BUTTERCUP FAIRY: Clear cream standards and bright yellow falls, edged with cream, and an ivory-white beard. Good form with nicely flared falls. Height 6 inches.

APRIL ACCENT: This is a rich yellow bitone with a bright blue beard. Standards are medium yellow and falls are darker mustard yellow, nicely flared. Height 7 inches.

CUPCAKE: A very clean and refreshing little iris with its pure white standards and smooth lemon-yellow falls. The 8 inch slender stems are nice for cutting.

DREAM STUFF: I love the color of this one, a light lilac or orchid self even to the beard. The round falls flare horizontally. Grows 6 inches high.

EARLIBLUE: A fine addition to the blue class; this one is medium blue with a darker blue spot on either side of the bushy white beard. Grows about 5 inches high.

GREEN PIXIE: One that everyone points out as green. Standards are greenish cream and the rounded, flaring falls are uranium green, slightly lighter at the edges. This has an extra long bloom season with two flowers coming in each spathe. 6 inches.

KIP: A lovely deep red-violet pumila of exceptionally wide rounded form. A darker velvety area is concentrated around the blue beard. Grows 5 inches high.

NAVY FLIRT: A well formed rich navy blue bitone with a snow white beard. Grows to 6 inches and makes a beautiful clump.

SEE ME: A small deep violet with a white beard. Falls are horizontally flared and the perky little clump seems to say, "See me! Don't you think I am pretty?" It is an early bloomer and grows to 4 inches.

SKY CAPER: One of the loveliest of the light blues, being a clear sky blue, slightly darker around the white beard. It is a bit lighter blue than **NANCY MARIA**, and both have wide rounded, flaring falls. 6 inches high.

SO FAIR: This is another one that is completely different in coloring. The standards are orchid-white and the falls clear orchid and nicely flared. Standards tend to open and collapse before the flower wilts, but in spite of this it is very showy and pretty. 7 inches.

STANDARD DWARFS—

ADRIENNE TAYLOR: Medium blue standards and wide rounded falls of blended blue and violet, lighter at the edges. The attractive bushy beard is light blue. Very nice form and good proportion; grows 13 inches.

BLACK CONTRAST: This is a beautiful royal blue-purple with a neat white beard. Not dark enough to be called black, but a lovely iris with horizontal flaring falls and smooth velvety finish. 12 inch bloomstalks.

BLUE ACE: One of the best of the violet-blues; a solid clean color with matching beard and wide round flaring falls. A dependable bloomer. 12 inches high.

BRIGHT BEACON: A very bright color that is hard to describe. I would say that the standards are rosy purple and the falls a bright maroon-red with lighter edging and a lavender-blue beard. Excellent rounded flaring form; grows 12 inches. This was described three different ways in the January **BULLETIN**.

EYE SHADOW: Very showy and eye-catching in shades of rosy purple. Flaring falls have a darker velvety spot and a few white lines around the blue beard. Excellent shape and a good performer. 12 inch bloomstalks.

BLUE MOSS: Here is one of exotic coloring. Standards are medium blue and the falls are blended blue and moss green, with the green concentrated around the blue beard. Falls are semiflaring and the standards are cupped. A beautiful and exotic little iris. Grows 14 inches.

FI-LEE: Another that is hard to describe. Standards are a rosy mauve-pink and the falls are darker with a lavender beard. This gives a rosy pink effect in the garden and certainly is pretty and different. Bloomstalks 12 inches high.

GRACE NOTE: This has been a “crowd stopper” the past two years that we have grown it. Standards are clear bright yellow and falls are darker greenish yellow with dramatic lavender-blue beards. A knockout for color, and one fails to notice that the falls are rather narrow, though nicely flared. It is one of the first of the SDBs to bloom here and has 12 inch stalks.

IRISH LILT: A new green amoena that has the greenest falls I have yet seen. Standards are clean ivory-white and the very wide and rounded flaring falls are real blue-green with ivory beard. This one grows 11 inches high.

MAY TROLL: This dainty, 10 inch variety has lavender standards and buff-brown falls with a fine edging of lavender. The beard is lavender-white. Nice shape with wide semiflaring falls.

ORANGE CAPER: A clear bright orange-yellow with a heavy orange beard. This has ruffles in addition to wide rounded flaring shape. A beautiful iris and one that we call a “WOW” color, for it is so bright and showy. Grows 10 inches high.

RED HEART: Another different one that is very showy. Standards are

lavender-blue and the flaring falls are a bright solid oxblood-red with a narrow edging of lavender-blue. The beard is lavender-blue. This makes an outstanding clump with bloomstalks 13 inches.

RUSSET DOT: We liked this very much for its wide rounded shape and bright clean yellow color with a large solid mahogany-brown spot on the falls. Very good contrast here as well as excellent form. 12 inches.

SCOT CREAM: Beautiful shape and dainty proportion as well as lovely color makes this an outstanding variety. Standards are creamy white and flaring falls are greenish yellow with slightly deeper color concentrated around the light lavender-blue beard. Grows 10 inches high.

SUDDEN MUSIC: I can imagine that the originator heard "Sudden Music" and bells ringing when she found this in her seedling patch. It is a beautiful and dainty flower of rich, velvety wine-red, very smooth and clean with excellent flaring shape. The falls are lighter at the edges and the beard is violet. Grows 12 inches.

In the plicata class, **CIRCLETTE**, **SPECKLED SPRITE** and **PLICUTIE** are all different from the others. **CIRCLETTE** has bright violet markings on white ground, with the standards mostly violet. Good shape and eye-catching. 13 inches.

SPECKLED SPRITE: Has rosy purple markings on white ground, giving quite a rosy effect as the standards are heavily sanded rose. Good shape and 11 inches high.

PLICUTIE: Mostly white with narrow edging of orchid-blue plicata markings around all of the petals, which are lightly ruffled and of good shape. The deeper orchid crest and orchid tipped beard add to its beauty. 13 inches.

Pink dwarfs are quite rare as yet, but two fine ones bloomed here side by side for easy comparison. **LENNA M.** is a soft buffy pink with a buff spot on the semi-flaring falls, bordered with color of the standards. The beard is white, tipped tangerine and deeper tangerine down inside the flower.

My own **PINK CUSHION** is a clearer, richer pink, on the salmon side, with wider and more rounded falls and tangerine beard. It is a vigorous grower and profuse bloomer, making a pretty pink cushion of color in the garden. Grows 11-12 inches. Like **LENNA M.**, it is fertile both ways and from these two new pinks and others should come some better pinks of heavier substance, better form and richer color.

1967 SPURIA INTRODUCTIONS OF ELEANOR McCOWN

IMPERIAL BURGUNDY. Sparkling, bright, rich, clear burgundy-red self. A vibrant new color in a spuria of average form. (#67-1). \$20.00

IMPERIAL NIGHT. Medium purple standards with deep orange signal bordered in dark purple. (**INFLATION X SPRING PLUM**) \$15.00

IMPERIAL FLIGHT. Large spuria with straight standing lavender standards, poised as ready for flight. Yellow signal veined lavender. (**COUNTERPOINT X WHITE HERON**) \$10.00

CANARY CAPRICE. Cream standards; rich yellow falls with a minute white edge. Compact petite form. Ideal for arrangements. (#67-11) \$5.00

VAN DUSEN IRIS GARDENS

Star Route, Descanso, Calif. 92016

IN TRIBUTE TO A CALIFORNIA IRISARIAN

PEGGY GRAY AND ROY OLIPHANT

We first knew Elwood Molseed as a bright teenager, an attractive and charming youngster who made you realize that the world wouldn't fall to pieces in the hands of the younger generation. He came from the ruggedly beautiful northwestern coast of California, and he knew our native wild-flowers in all their special habitats. He also knew an astonishing amount about the beardless irises. That he would become a botanist, and a good one, was never in doubt. You always could feel a sense of dedication along with his eager curiosity and enthusiasm about plants.

He loved the Siberian and Japanese irises, and knew the Pacific Coast native irises intimately. At the University of California at Berkeley he did some notable work with the *Evansia* (crested) irises. He had a fabulous collection of species and hybrids and made some very difficult interspecific crosses. He had planned to do the work for his doctoral thesis with the *Evansias* until, as he laughingly told friends, he discovered the amount of field work which would have to be done in their native habitats in the Burma-China-Tibet hinterlands. So he gave up the idea and turned to the *Tigridias*, another Genus of the iris family, known to gardeners as the Mexican shellflowers. They presented a tremendous challenge, for little had been done in scientific study of them. And he became *the authority* on these little known irids.

Elwood made numerous trips into the *Tigridia* habitats of Mexico and Guatamala, always sending back fascinating postal cards and notes to give his friends a peek at the fun he was having in finding strange and intriguing new things.

He had a marvelously descriptive writing style and did numerous articles on various irises and irids for the Journal of the California Horticultural Society. And he had a delightful personality which made him an engaging and sought-after speaker. But always the thing which made him very special to the people who knew him was his love of sharing his experiences, and the plants and seeds which he collected on his innumerable field trips after California native irises, and from his personal collection of rare iris species. So many of our gardens are much more beautiful for this wealth of plant treasure which Elwood shared so generously.

After receiving his doctorate in Botany at the University of California, he was offered several fine positions, one of them with the National Herbarium. He selected the post of Assistant Professor of Biology at the University of San Francisco. About two years ago the University of California thought so highly of Elwood's work and promising future that they offered him a position as Botanist which also would give him considerable academic standing, but he declined the honor. He later went to his good friend, Anton Christ, head of the University's Botanical Gardens, for whom he had worked for a number of years as a student, to explain the reason for his refusal . . . that he felt it would not be worth the University's while for him to join the staff. None of his friends knew this, and the reason seems that much more difficult to bear now that it is known.

The death of a brilliant young man, hardly begun upon a career which

surely would lead him to greatness in his chosen field, is always sad. That Elwood Molseed should have his life taken by cancer at the age of 28, when he had already contributed so very much of real worth to the world, and to the lives of the people privileged to have known him well, is doubly so.

His great concern during his last few weeks was what would become of his invaluable collection of Tigridias and whether his work would be carried on. Anton Christ was able to assure him on that last afternoon that the University Botanical Garden's truck had just picked up the plants in San Francisco and transferred them to Berkeley and that Dr. Lincoln Constance had arranged for Elwood's friend and fellow botanist, Bob Cruden, to carry on the research project and publish Elwood's work.

The iris world is poorer indeed with the loss of this remarkable young botanist. Only time could have shown what new knowledge he would have continued to add about the Genus. He is buried now in the cemetery of the little Sonoma County, California town of Tomales, close by the native habitats of the *Irises douglasiana* and *longipetala*, which he loved so well.

IN MEMORIAM

ROBERT R. YOUNG



ROBERT YOUNG AND MAJOR RED

From those of us who knew him, there is so very much that could be written about "Bob" Young, but many of us think of him as the Ambassador of the Kingdom of Irises. From the time he became interested in the irises he saw in George Dubes' garden, he was a fervent promoter of this flower. He and George later went into partnership in the Soo-Preme Gardens, and this acreage soon became the mecca of iris lovers of Nebraska and Iowa. There are many of us who remember with pleasure the personally conducted tours through these gardens. He served as an energetic RVP of Region 21.

On retirement from the Sioux City postoffice, he moved to Lompoc, California, and began to build a name for irises in this area of annuals. He soon became an active part in the affairs of the west coast states, and his travels in behalf of our flower were extensive.

"Bob" passed away quickly, in March, while working in his iris garden.

GEORGE P. MORGAN

George P. Morgan of Saginaw, Michigan, was claimed in death on March 10, at the age of 65. Before retiring in January, he had been employed by the General Motors Corporation for 36 years. He served in the U.S. Navy during World War I.

Mr. Morgan served as RVP of Region 6 from 1961 to 1963, and had been an AIS Garden Judge since 1956. In November of 1966 he was appointed Honorary Judge.

He leaves his widow; one son, George E. Morgan, Recse; one brother, Charles E. Morgan; and four sisters.

HARRY J. RANDALL

Just as we are in the process of assembling the final copy, we have learned of the death of Harry Randall. He had been the speaker at the daffodil convention in April, and then had visited with the Jess Wills. He than spent some time in St. Louis, and then went to Chicago to visit friends. He died on March 5, a few hours after his return to England.

As we were completing the final copy, this tribute for Harry Randall came from the British Iris Society *Newsletter*:

It is with great sorrow that we have heard of the sudden death in his sleep of Harry Randall on the 5th May. Harry, as he was known to all his iris friends, was one of the greatest growers of all times of tall bearded irises in this or any other country and was of international stature. Quite literally nothing short of what he considered perfection in an iris satisfied him and such was the quality of his spikes that one seldom failed to identify them as his. His great love was for the modern American T.B. and in his own enthusiastic way he managed, as soon as possible after the war, to select and bring over here the best of the new American varieties. He was probably the first to realise that without them British hybridising could never make up for the time lost through the war and, by growing them to perfection and introducing them to us, he placed the British Iris Society and all British growers in his lasting debt. We shall always be grateful to him for this.

He did not himself hybridise in a big way, but his well-known introductions, to many of which he gave the names of the British Lakes, are among our finest cultivars.

At various times over the past 20 or so years he has held most of the offices in the Society and he has won all the major awards from the Dykes Medal downwards. His loss is a very real one to iris lovers all the world over and particularly to the British Iris Society; and we extend our deepest sympathies to his widow and family in their bereavement.

An appreciation of his work will be included in the next *Yearbook*.

W. G. DARNELL

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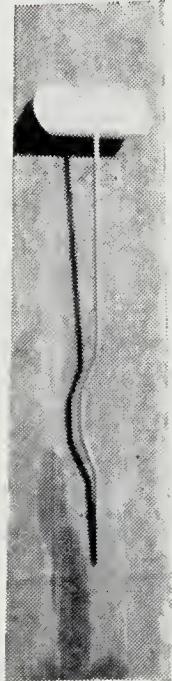
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Johnny Rusk, age 10, with his winning iris entry, *STEPPING OUT*, which took the trophy for "Best Specimen" at the Cleveland Iris Show on June 3, 1967.

SCIENTIFIC *At the Species Level*

ROY DAVIDSON

The Species Study Group of the American Iris Society is now fully in force and publications will soon be forthcoming. For those who are newcomers or who are not aware of the intents and purposes of this new facility of AIS, it is explained that as the Society itself and all the affiliates are mainly interested in improved garden forms of irises through exploiting of the species through outbreeding to other species, the Study Group is interested in the species of iris for themselves, bearded and beardless alike, and although it is certainly meritorious that such a long program of the interbreeding of species, particularly of the bearded sorts, has given so vast and varied a race of splendid garden subjects, it must be also admitted that there is great merit in the smaller and "unimproved" wildlings of nature. This does not mean that no attempts will be made at improvement; it is the nature of every really good gardener to select and perpetuate only the very best. Along with this will be a program aimed at understanding the Genus Iris, in how to tell one species from another, how to succeed with them as garden subjects and how to acquire as many of them as are available, and any "new" ones as soon as they become so.

The April bulletin has explained the aims and intentions of the Study Group and expressed the attitude of cooperation with all existing groups interested in growing irises. Encouraging expressions of helpful nature have been received from all quarters, and it is with much anticipation that the functions of the Study Group are being undertaken.

There are to be two forms of publication: one is the "living organ" of the organization, the newsletter, published under the masthead "SIGNA"; and the other the pertinent information on species taken from the botanical and horticultural literature of the iris. A major undertaking will be, in time, a complete list of the synonymy of Latin names, which will be of aid in deciphering whether or not the plants grown by some unheard-of name are what they should be and what they *should* be called. Such will also aid in their cultivation for the cultural notes to be issued with the seedlists cannot hope to carry all the synonymous names.

To help support the functions of the Study Group the publications are offered at the rate of \$2.00 per year for either a single or family membership, or \$5.00 for three years, and for this subscription the member receives both "SIGNA" and the periodical issues for the Study Manual from the library facility. The seed exchange function is now ready to receive and dispense any and all iris seed, though at present there is no plan afoot to sponsor any bearded hybrids; seed of bearded species is welcomed.

The AIS Seed Exchange and Its Workings

Seed supply will depend largely on contributions from members. Seed will be offered to the AIS membership at the rate of 25¢ per packet for all open-pollinated (bee-set) seed or 5 packets for \$1.00. Hand pollinated seed will be sent at 50¢ per packet. The procedure of the function will be as follows:

- a.) Seed lots will be received by the seed exchange director from August to October.

b.) Each lot as received will be assigned a number and recorded in the permanent record, along with any information as to its origin.

c.) The October Bulletin will carry the announcement that the seed list is available to anyone for the receipt of a stamped, self-addressed envelope. (Ideally it should go to the entire membership with the Bulletin, and this might prove possible though the time-element is working against such a probability.)

d.) The seed list is in the form of an order-blank, carrying the code-numbers and such information as is known for each lot. Also included will be a concise sheet telling of growing methods for various iris species.

e.) The member indicates his choices, encloses the proper amount of money and sends the order to the seed exchange director.

f.) The order is filled, any substitutions noted on it, and is returned with the seeds to the member. There is therefore no record of orders at the director's end, only the number of packets sent out and moneys received.

g.) The amount of seed per packet will vary directly with the old law of supply and demand, but in no case will less than five seeds constitute a packet. In the instance of a very limited supply of an item, it will be given to a specialty grower who will return the harvest from it to the exchange.

h.) The seed mailing season will be the month of November; a second season may be announced for a short period in January. Either will give to the planted seeds the "wintering" that seems beneficial. This keeps the seeds out of the busy Christmas mails.

i.) The January Bulletin will publish the seed list as a matter of permanent record to the membership. No further records will be kept by the seed exchange director. Anyone wishing at a later time to check on a given seed-lot consults the Bulletin, eliminating a lot of correspondence.

Correct Labeling of Seed Is Important

Much confusion, both to the seed exchange director and to those who will receive the seed and grow the plants, can be eliminated at the very outset if those sending seed will remember a few simple rules in labeling seed.

1. The information on the packet should describe what will be grown from the seed, NOT the parent from which it was harvested. This is a simple matter in most cases, but not so in all.

2. Where known, the species name should be given; where not known, say so; DO NOT GUESS.

3. Indicate whether the seed was the result of hand-pollination (H-P) or of open-pollination (O-P), which is what we speak of as "Bee-seed."

4. Indicate whether the seed was harvested in the garden (G) or if it was collected on the wild (Col.) If the latter, state the county and state of the place of collection. This can help the identification committee if the species is unknown.

5. If the identity is unknown or uncertain, or if it is of hybrid origin there are prescribed ways of indicating this. While the organization is primarily interested in pure species, hybrid seed (within the apogons particularly) will be valuable in the attempt to acclimate more kinds to the growing areas that are not favorable to pure species.

a. Pod-parent always appears first in the pedigree, the female from which the seed was harvested; the pollen-parent follows, with an X separating them

to indicate a cross-pollination was made between two different species. (Example: *I. forrestii* X *I. chrysographes*.) (This example will only fit hand-pollinated seed.)

b. If the seed is harvested from a seedling grown from the above hand-pollination the labeling should read: (*I. forrestii* X *I. chrysographes*) F₂, which means it is second generation from the cross made. If it is "Bee-seed" it will be labeled (O-P); if the seed resulted from an individual of the cross being hand-pollinated it will be labeled (H-P), and if the pollen was from the same plant (Self), if from a sister-seedling (Sib.)

As an example a seed-lot coming in might appear thus:

Iris sp. unknown (O-P) (G)

Plant collected Lane Co., Oregon

Appears to be (*I. tenax*-*chrysophylla* hybrid).

This tells that the seed was "bee-set" on a plant growing in the garden, originally found growing wild in Lane Co., Oregon and not conforming to any species description, and presumed to have been a natural hybrid between *I. tenax* and *I. chrysophylla*. No "X" is used in this pedigree because it is unknown which of the two presumed parents might have been the one bearing the seed.

Harvesting and Cleaning Seed

The ideal time to collect seed-pods is just as they begin to dry enough to split open at their tips. Pick each lot into separate paper bags and let them stand in an aerated place to dry; when they can be easily split and the seeds shelled out, do this and clean out as much of the chaffy material as possible. Then package in an envelope that will not leak seeds (if there are gaps, seal with scotch tape). This envelope will bear the name of the donor and such identifying information as already discussed and mail to:

Mrs. John R. Hardy
296 Hunsaker Lane
Eugene, Oregon 97402

It is to be sincerely hoped that every member who is growing any of the iris species will contribute seed to the Exchange for the enjoyment of others and the benefit of the Society. Even if it seems to be too, too common, it may be just what someone is looking for.

IRIS NELSONII,

A New Species of Louisiana Iris of Hybrid

L. F. RANDOLPH

Review of article in BAILEYEA, Vol. 14, Dec. 1966, No. 4, By James A. Foret

A new species of Louisiana irises of hybrid origin is described. *Iris Nelsonii** has apparently originated from the natural hybridization of *I. fulva*, *I. giganticaerulea* and possibly *I. brevicaulis*. These three previously described species and *I. virginica* are indigenous to Southern Louisiana, and are widely distributed from the delta region of the Mississippi River westward to Texas.

A stabilized population of *I. Nelsonii* occupies a distinctive habitat in the Abbeville Swamp and its drainage basin. The Abbeville Swamp is located five miles southeast of Abbeville, Vermilion Parish, Louisiana. This particular

swamp area is subject to tidewater fluctuations, has deep shade, and is at the axis of typical habitat of the three species from which *I. Nelsonii* is derived.

Interspecific hybrids of these three species may be collected on the fringes of the habitat occupied by *I. Nelsonii*.

Known locally as the Abbeville Reds, because of their bright red-purple flower color, the new species is readily differentiated from the assumed parental species by the unique flower color which is very different from the fulvous red of *I. fulva* and the blue-lavender of *I. giganticaerulea* and *I. brevicaulis*. Very rarely, buff to yellow variants may be found. Flowers are borne on stems 28 to 44 inches tall, and are 4 to 5 inches across, with petals and sepals drooping. *I. Nelsonii* blooms a few days to a week later than either *I. fulva* or *I. giganticaerulea*.

Like *I. fulva* and *I. brevicaulis*, *I. Nelsonii* has chromosome numbers of $2n=42$ and the author states that chromosome number is not a barrier to crossability and that there is no evidence that difference in number has been involved (*I. giganticaerulea* has $2n=44$).

Extensive collections of *I. Nelsonii* have been made over the past 25 years. Collections made by the author in 1953, 1956 and 1963 from widely separated colonies in the Abbeville Swamp indicated a uniform population.

Hybrids of *I. Nelsonii* and its parent species have been collected and used extensively in the development of many fine cultivars.

*Named for the late Ira S. Nelson, Professor of Horticulture, University of Southwestern Louisiana, Lafayette, Louisiana.

NEGATIVE EVIDENCE OF INTROGRESSION AFFECTING THE STABILITY OF LOUISIANA IRIS SPECIES

L. F. RANDOLPH, IRA S. NELSON AND R. L. PLAISTED

Review of Cornell University Study: Memoir 398, Jan. 1967, 56 pp—Review by James A. Foret

Field and laboratory studies of colonies of the three major species of native Louisiana Irises, *I. fulva*, *I. giganticaerulea* and *I. brevicaulis*, were made to determine to what degree, if any, interspecific hybrids occurred naturally, and what influence this might have on the establishment and stabilization of intermediate populations possessing characteristics of any two or all three species.

Populations of each species studied were in some instances far removed from the others. These species were also studied in situations where the species grew in close proximity and interspecific hybridization was occurring. Statistical & analyses were made of measurements of 13 characters of each species, and of apparent hybrid populations resulting from species occurring in close proximity.

These data indicate that the naturally occurring hybrids are apparently not stabilizing themselves in nature. One important factor that the authors felt contributed to the lack of success in stabilization of these hybrids in nature, was the significant amount of defective pollen produced by the interspecific hybrids.

The authors concluded that there was no evidence of interspecific hybridization having altered significantly the three cross-compatible species of Louisiana irises as stable taxonomic units.

PROTECTIVE FUNGICIDE TREATMENTS FOR CONTROL OF WINTER RHIZOME ROT CAUSED BY *BOTRYTIS CONVOLUTA*¹

Reprinted from Vol. 51, No. 2—PLANT DISEASE REPORTER—
February 1967
H. S. MACWITHEY²

Abstract

Semesan and Ceresan rhizome soak treatments significantly reduced losses from *Botrytis* winter rhizome rot disease in iris planted in soil infested with *Botrytis convoluta*. These fungicides were not effective in eradicating suberized *Botrytis* infections in planting stock or in reducing infection of new divisions by *Botrytis*. They were active, however, in preventing infection of wound tissue on the parent rhizome and the spread of inoculum from suberized lesions in contact with the soil.

INTRODUCTION

Control of *Botrytis* rhizome rot of iris by fungicide treatments was first studied by Dosdall in 1944(1). This investigation showed that rhizome soak treatments with various mercury compounds were effective in reducing disease losses in *Botrytis*-free soils. These materials were without effect in *Botrytis*-infested soil and their activity in all soils varied with the iris variety used in fungicide tests.

In the years following this investigation, further tests of the control of *Botrytis* disease by fungicides have not been forthcoming although *Botrytis* rhizome rot continues to be the limiting factor in the winter survival of iris plantings in the northern States. Over the past 5 years, communications from commercial and amateur growers have indicated an increased use of fungicides in attempts to reduce disease losses. In these reports certain fungicides were repeatedly observed to be effective and so seemed to merit further attention as to their possible value in disease control. Experiments were therefore initiated to test the activity of these fungicides in reducing infection and subsequent losses from *Botrytis* disease.

MATERIALS AND METHODS

Iris varieties Cahokia, Copper Medallion, Elmohr and Sable, furnished by Schreiner's Gardens, Salem, Oregon, were used in these experiments. All rhizomes were examined before treatment with fungicides for rotted or discolored areas, which indicated infection with *B. convoluta*(2), and those with such areas were discarded.

The concentrations of fungicide suspensions per 100 gallons were as follows: captan (50%), 4 lb.; ethylmercury chloride (Ceresan (2%), 12.5 lb.; dichlone (50%) (Phygon), 10 lb.; 2-chloro-4-(hydroxymercuri) phenol (Semesan) (30%), 3 lb.; micronized sulfur, 3 pt.; and pentachloronitrobenzene (PCBN) (Terraclor) (75%), 18.5 lb. Nystatin (Mycostatin) was used at a concentration of 500,000 units/liter water. Iris rhizomes were treated by

¹Journal Article No. 784, Montana Agricultural Experiment Station.

²Associate Professor of Plant Pathology, Department of Botany and Microbiology, Montana State University, Bozeman, Montana. (Now Senior Staff Scientist, Frito-Lay, Inc., Irving, Texas)

soaking for $\frac{1}{2}$ hour in the various fungicides with the exception of Ceresan-treated rhizomes which were soaked for only 5 to 10 minutes to prevent damage to root and crown tissue. Fungicide suspensions were agitated frequently during the treatment period to ensure thorough coverage of the rhizomes. Following treatment, the rhizomes were air dried at room temperature.

Twenty rhizomes of each of the four varieties were included in each fungicide treatment. The treated rhizomes were planted 3 inches deep in clay loam soil not previously cropped to iris on August 29. During planting, the soil immediately surrounding the rhizomes was infested with autoclaved-wheat cultures of *B. convoluta*, $\frac{1}{4}$ culture plate per rhizome. These cultures were grown in the dark at 20°C and contained both sclerotia and mycelium of the parasite. Conidia were not produced in culture, owing to the absence of light and so were not present in the inoculum. Forty rhizomes of each variety were also planted in infested and uninfested soil but without fungicide treatment.

Iris showing no new growth were removed from the planting on June 30th the following year. Preliminary diagnosis of *Botrytis* rhizome rot was made by examining the rotted rhizome tissue for the presence of sclerotia of *B. convoluta*. Rhizomes not showing these structures were taken to the laboratory where samples of rotted tissue were removed and placed on cornmeal decoction agar plates for isolation of the infesting fungi. Isolates identified as *Botrytis* were transferred to potato-dextrose agar medium and placed at 15°C in the dark for production of the convoluted sclerotia characteristic of the iris parasite.

The remaining iris rhizomes were harvested on July 17. These rhizomes were serially sectioned and samples of diseased tissue from rhizome lesions removed to cornmeal agar. Identification of *Botrytis* isolates was as previously described. The location of *Botrytis* lesions on the diseased rhizomes was recorded.

EXPERIMENTAL RESULTS

The disease levels varied appreciably between varieties within treatments because of different levels of preplanting infestation of iris varieties with *B. convoluta*. The average of the disease levels of the four varieties in a single treatment, however, gave an accurate estimate of the ability of the fungicide to protect against soilborne infection by *Botrytis*. The relatively low numbers of dead plants in the Semesan and Ceresan treatments when compared with other fungicides and the infested soil check treatment were significant at the 1% level (Table 1). The high number of dead plants in the sulfur treatment was also significant. All other fungicide treatments did not differ significantly from untreated rhizomes in infested soil and were therefore considered without effect under the conditions of these experiments.

To determine whether fungicide protection of parent rhizome material could be detected in living iris, *Botrytis*-infested rhizomes harvested from the various fungicide treatments were divided into three categories: 1) iris with lesions in the parent rhizome only, 2) iris with lesions in divisions only, and 3) iris with lesions in both parent rhizome and divisions. Ceresan and Semesan treatments showed a significantly lower proportion of rhizomes with *Botrytis* infections on the parent rhizome when compared with all other treatments (Fig.

Table 1. Comparison of seven fungicide treatments in control of *Botrytis* disease in four iris varieties.

Fungicide	Iris variety												Average	
	Botrytis diseased rhizomes													
	Cahokia		Medallion		Elmohr		Sable		Living		Dead			
	No. living	No. dead	No. living	No. dead	No. living	No. dead	No. living	No. dead	No. living	No. dead	No. living	No. dead		
Captan	2	16	1	19	2	17	7	11	3.00	15.75				
Ceresan	5	8	2	14	4	8	2	5	3.50	8.75**				
Nystatin	3	9	2	18	2	18	3	11	2.50	14.00				
Diehlone	4	10	0	18	0	16	2	13	1.5	14.25				
Semesan	5	8	6	7	9	3	4	5	6.0	5.75**				
Sulfur	2	18	0	19	0	18	0	18	0.50	18.25**				
PCNB	4	8	2	16	1	15	2	13	2.25	14.00				
Infested soil														
No treatment (1)	3	17	3	12	3	9	3	14	3.00	13.25				
Infested soil														
No treatment (2)	4	10	0	18	3	13	4	12	2.75	13.25				
Uninfested soil														
No treatment (1)	0	4	3	10	4	6	1	3	2.00	5.75				
Uninfested soil														
No treatment (2)	0	2	1	18	0	9	2	4	0.75	8.25				

**Significant at the 1% level.

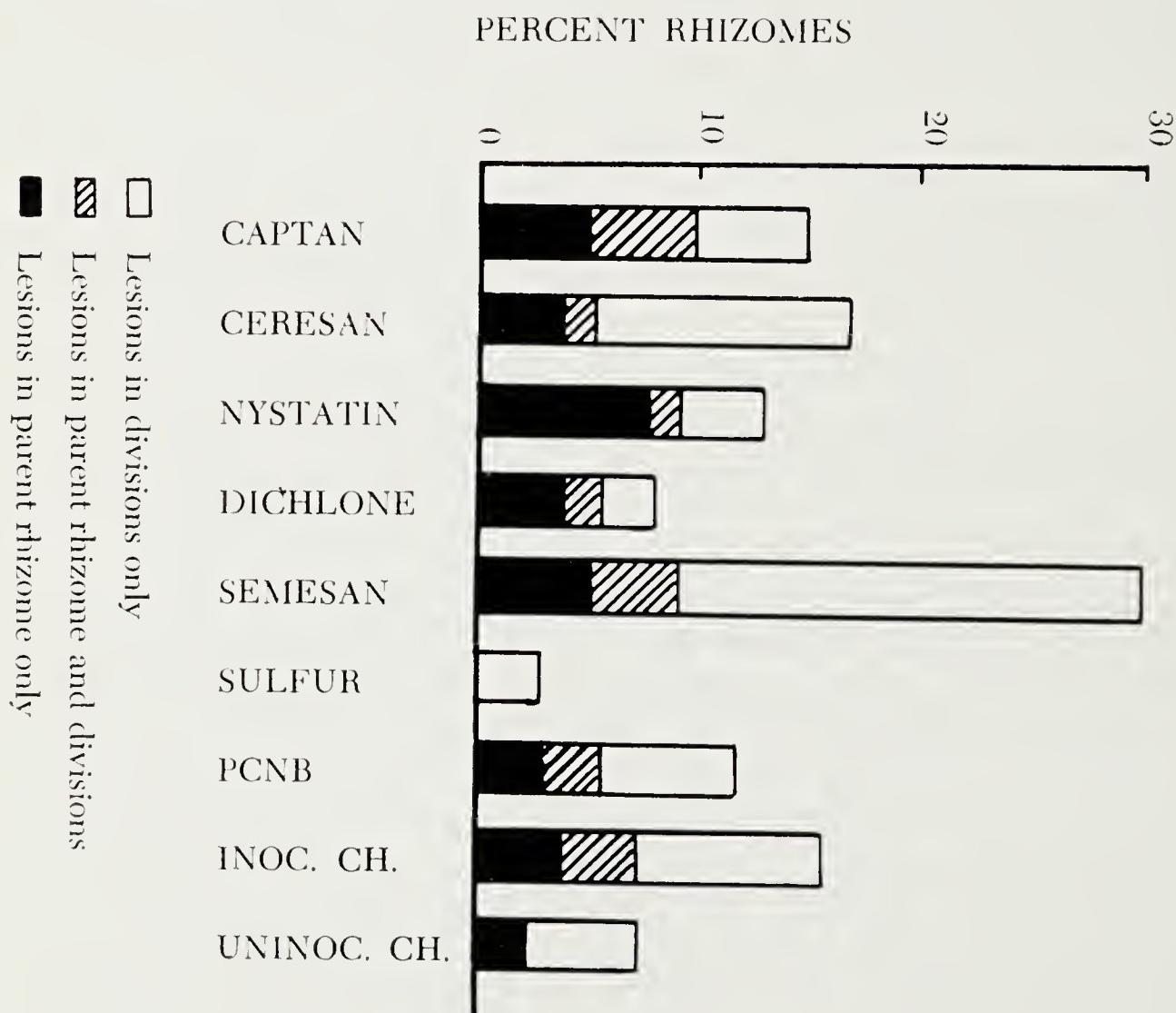


FIGURE 1. Effect of fungicide treatments on the frequency of occurrence of *Botrytis* lesions in parent rhizomes and new rhizome divisions.

1). This further demonstrated the ability of these fungicides to protect parent rhizome material from infection. The correspondingly large proportion of rhizomes in the Semesan and Ceresan treatments with lesions on new rhizome growth, however, also demonstrated the lack of protection afforded this growth by the same fungicides.

DISCUSSION

This investigation has shown that Semesan and Ceresan fungicide soak treatments of iris planting stock significantly reduce the incidence of Botrytis rhizome rot disease in infested soil. Other fungicides tested were without effect, although it is possible that at higher fungicide concentrations and lower soil inoculum levels these materials would give some protection. Sulfur treatments significantly increased losses from Botrytis disease, possibly by phytotoxicity or perhaps by altering the pH of the soil surrounding the rhizome and thereby creating more favorable conditions for infection and pathogenesis. In this connection, the common practice of liming acid soils may be a means of disease control in addition to providing a more favorable pH for iris growth.

None of the fungicide treatments was effective in eradicating Botrytis infections present in the planting stock, although some control possibly was achieved in Semesan treatments of varieties Copper Medallion and Elmohr. The level of infestation in planting stock ranged from 15 to 70% depending upon the variety. Attempts to detect these infections by examination of the rhizomes before planting were unsuccessful. The origin of these infections was evident when new divisions produced in infested soil were examined in the spring. Small lesions, 1 to 5 mm in diameter from which *B. convoluta* was recovered, were common in the apical half of the developing rhizome. With the subsequent development of suberin on the rhizome surface and at the margin of the infections during the summer, these lesions easily passed unnoticed in examination of planting stock.

The importance of these suberized infections in Botrytis rhizome rot disease is not fully understood. The periderm layer at the margin of the infection once formed appears to prevent the spread of the parasite to adjacent healthy tissue even at temperatures favorable for pathogenesis. The suberized epidermis, however, is not continuous over the lesion and it is probable that growth of the parasite through the soil to adjacent rhizome wound tissue could take place. In this way these lesions could serve as an important source of inoculum for infection in both infested and uninfested soil. The action of the fungicide on infested planting stock would be to prevent spread of inoculum from these lesions and to protect wound tissue on the parent rhizome from infection from this source as well as from soilborne inoculum. This same protection is not afforded to new rhizome divisions that develop after planting; therefore to realize the greatest benefit from fungicide treatment of planting stock, infested soil should be avoided or if necessary treated with suitable soil sterilants before planting.

Acknowledgement

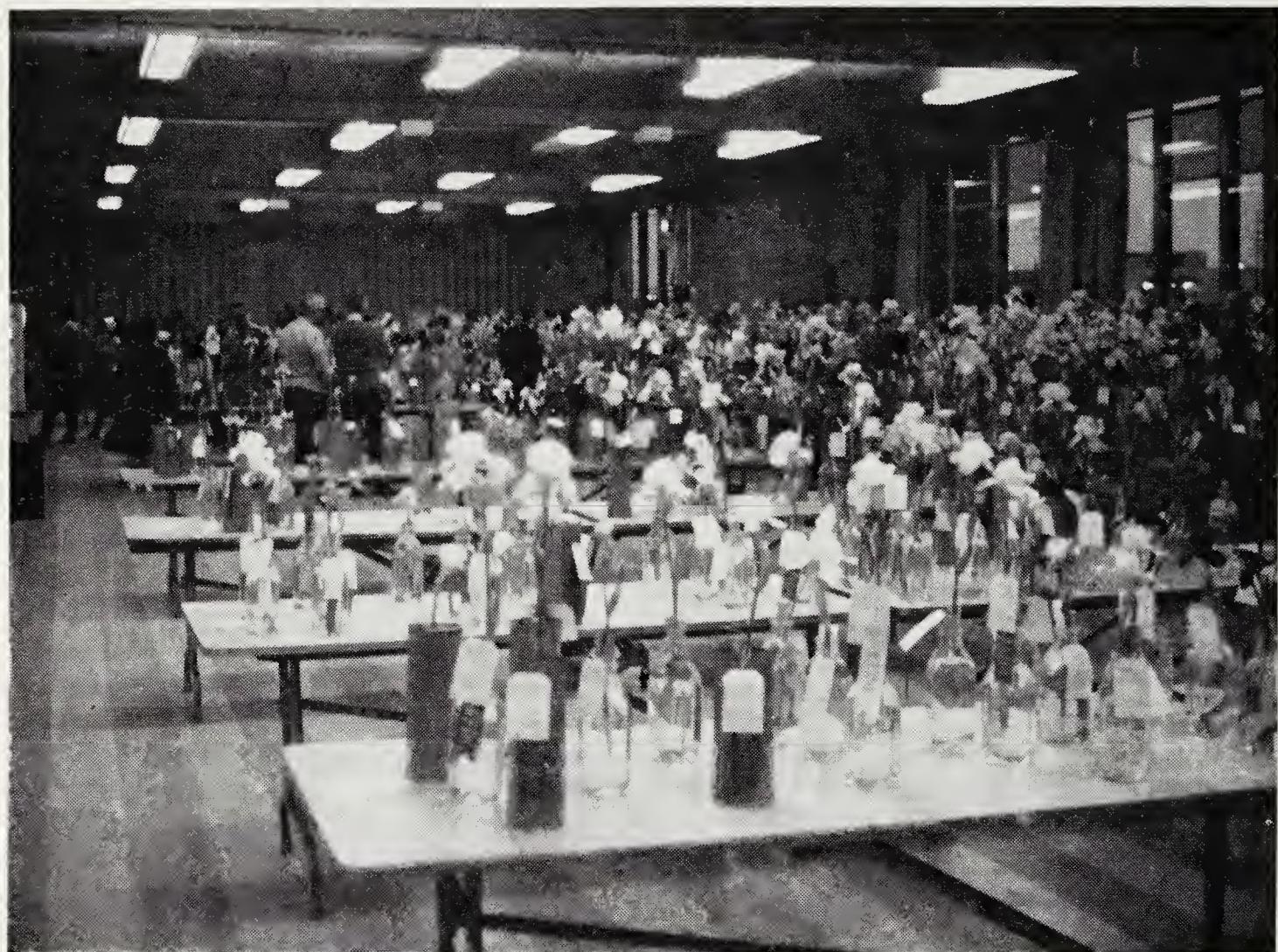
The author wishes to express his appreciation to the American Iris Society for a grant-in-aid that made this research possible.

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DEPARTMENT OF BOTANY AND MICROBIOLOGY,
MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA



A SCENE FROM THE CHICAGO SHOW

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International Competition For Low Irises in Vienna

The Competition for Dwarf and Median Irises, which took place in the year 1965, has resulted in about 120 sorts. In the season of 1966 the plants had been judged provisionally, as many plants were not yet in blossom or were only feeble. Therefore, the highest prize (the prize of the ministry) was not awarded. Anyway a judging was carried out, as the list below shows. The diplomas and prizes were sent to the breeders.

We send our sincere congratulations and beg all breeders to send their latest varieties every year.

The conditions are the same with the only exception that a fourth branch has been added, namely arilbreds and oncobreds as long as they belong to the group of the intermediates concerning height and blossoming.

Here is a short description of the climate of Vienna:

There are reasonably cold winters with temperatures up to -5° C, seldom up to -10° C, so that the well known irises regeliocyclus of Tubergen can be hibernated easily in open air. Summers are mostly dry and hot (except the last two years) so that the rhizomes of all kinds of irises ripen well. Therefore, it would be of no use to send irises to Vienna which have to be hibernated indoors.

We draw your attention to the fact that prizes will be awarded in the following four branches:

- | | |
|-------------------------|-------------------|
| 1. Miniature Dwarf | 6-10 inches high |
| 2. Standard Dwarf | 10-15 inches high |
| 3. Intermediate Bearded | 15-28 inches high |
| 4. Arils and Oncobreds | 10-28 inches high |

All seedlings must arrive in Vienna inside September of each year. The seedlings will be planted carefully in Vienna and judged during two years—definitely in the second year. The seedlings remain the property of the sender. Mail charges for a possible return will be laid out by OCG.

Each sender may send up to six breedings, but two rhizomes of each sort necessarily. Registered and non-registered ones, such as with a name or with a number only, will be admitted.

Address: Österreichische Gartenbau-Gesellschaft,
1010 Wien, Parkring 12, Austria.

Postal declaration: Free pattern for exhibitional purposes. We recommend the shipment as "sample" in usual paperbags with clips up to 500 grammes. Wrapping the single rhizomes in thin paper will do perfectly. Shipments from overseas should be sent only by air mail.

Judging 1966—Prizewinners
Miniature Dwarf

First place	ROSEN MUND	Dr. Hertha van Nes
	Standard Dwarf	
First place	ARCTIC KISS	Alta Brown
Second place	CIRCLETTE	Mrs. F. W. Warburton
Third place	GLEAMING GOLD	Earl Roberts
	Intermediate Bearded	
First place	ARCTIC FANCY	Alta Brown
Second place	BINNIE	Mrs. Marion Rodley
Third place	ARCTIC MYST	Alta Brown

MINUTES OF BOARD OF DIRECTORS MEETING

Hotel Cosmopolitan, Denver, Colorado

May 30, 1967

The meeting was called to order at 9:00 P.M. by President Fischer with the following in attendance: First Vice President Nelson, Second Vice President Bledsoe, Past Presidents Randolph and Rogers, Directors Allen, Buxton, Durrance, Gaulter, Hamblen, Varnum, Wood, Treasurer Ackerman and Executive Secretary Benson. Absent: Bartholomew and Schreiner. Mrs. Helen McCaughey, Historian, Miss Ruth Rees, Public Relations Consultant, Mr. Joe Gatty, Public Relations, Mr. Thomas E. Jacoby, Publications Co-Chairman, Mr. Herbert M. Parker, Chairman, Scientific Committee and Mr. William H. Pack, RVP, Region #2, attended the session.

The minutes of the meeting in Denver, Colorado, November 5th and 6th, 1966, published in the January, 1967, BULLETIN, were approved.

Nominations for the Board of Directors were made as follows: Mrs. J. R. Hamblen, Mr. J. Arthur Nelson and Mr. Edward E. Varnum to succeed themselves. Dr. Hugo Wall, Wichita, Kansas, was nominated to succeed Mr. John A. Bartholomew, whose term expires in 1967.

The discussion of the revision of *GARDEN IRISES* was deferred until the fall Board of Directors Meeting.

It was voted to authorize the expenditure of \$150 for the purpose of purchasing 250 copies of the Royal Horticultural Society *Bulletin* on West Coast iris species.

It was voted to authorize the printing of 500 Round Robin Director's Manuals.

It was voted that the fall meeting of the Board of Directors be held in Dallas, Texas, on November 4-5, 1967.

The meeting adjourned at 11:45 P.M.

CLIFFORD W. BENSON, *Executive Secretary*

MINUTES OF JOINT RVP-DIRECTORS MEETING

Hotel Cosmopolitan, Denver, Colorado

May 31, 1967

The joint meeting of the RVPs and the Board of Directors was called to order at 8:00 A.M. by President Fischer. Present were First Vice President Nelson, Second Vice President Bledsoe, Past Presidents Randolph and Rogers, Directors Allen, Buxton, Durrance, Gaultier, Hamblen, Varnum, Wood, Treasurer Ackerman and Executive Secretary Benson. Absent: Bartholomew and Schreiner.

Mr. Fischer welcomed and introduced the officers, Directors, Regional Vice Presidents or their alternates and guests. Regions 9, 19 and 24 were represented by alternates—Mr. D. Steve Varner, Mr. Bern J. Houseward, Jr., and Mrs. Ruben Sawyer, respectively. Regions 4, 8, 10, 16 and 22 were without representation. All other Regions were represented by their RVPs.

Representing AIS Sections were: Mr. John Hartman, Society for Japanese Irises; Mr. Ralph A. Johnson, Spuria Iris Society; and Mrs. Charlotte Withers, Society for Siberian Irises. The Median Iris Society was without representation.

Others in attendance were: Mrs. Helen McCaughey, Historian; Miss Ruth Rees, Public Relations Consultant; Mr. Joe Gatty, Public Relations; Mr. Charles P. Gordon, RVP, Region #20; and Mr. Thomas E. Jacoby, past BULLETIN Editor and Publications Co-Chairman.

Reports of the following officers were presented:

Executive Secretary Benson reported on the present membership of the Society by Regions and States, the total being 6,819 as compared with 6,836 one year ago. Region #17 was reported as being the largest Region in membership. Region #18, second; Region #6, third; Region #15, fourth; Region #4, fifth; Region #24, sixth; Region #7, seventh; Region #14, eighth; Region #22, ninth; and Region #13, tenth.

Treasurer Jay C. Ackerman presented a financial report for the six-month period ended March 31, 1967, including a statement of receipts and disbursements and a statement of assets showing the Society to be in sound financial condition.

Additional reports were made by:

Mr. William H. Peck—RVP, Region #2

Mr. Edward E. Varnum—chairman Affiliates and Sections Committee

Mr. Ira Wood, chairman 1970 Semicentennial Liaison Committee

Mr. J. Arthur Nelson, BULLETIN Editor, Registrar, Co-chairman, Publications Committee and Chairman of Awards Committee

Mr. William T. Bledsoe, chairman of the Exhibitions Committee

Mrs. Walter H. Buxton, chairman of the Garden Judges Committee

Mrs. Helen McCaughey, Historian

Mr. Larry Gaultier, chairman of the Judge's Training Committee

Mr. Thomas E. Jacoby, Co-chairman Publications Committee

Mr. Joe Gatty, chairman of the Public Relations Committee

Mrs. James R. Hamblen, chairman of the Registrations Committee

Mr. Wm. J. Krasting, chairman of the Round Robins Committee (by Fischer)

Mr. Herbert M. Parker, chairman of the Scientific Committee

Mr. Robert Schreiner, chairman of the Slides Committee (by Fischer)

Dr. Ray C. Allen, chairman, National Test Gardens Committee

Dr. Jack R. Durrance, chairman, Regional Test Gardens Committee

Mrs. Elizabeth H. Rowe, chairman of the Youth's Committee

Following informal discussion of these reports, the meeting adjourned at 11:30 A.M.

CLIFFORD W. BENSON, *Executive Secretary*

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

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- ... Set of irises at the AIS convention in Newark 1966. For those who could not go to Denver here is a picturization on film of many, many of the very newest irises. See them in the comforts of your own meeting room. Yes, you'll see new irises, gardens, and intimate glimpses of some of the iris personalities who attended the Newark convention.

Requests for slides should be made well in advance for proper scheduling, preferably 30 days or longer. Include a second date if possible. Give the exact date desired so that slides can be sent insured airmail. They are to be returned in the same manner. The rental fee is \$5.00, payable in advance, for each set of 100 slides. Make checks to the American Iris Society and mail with your receipts to:

ROBERT SCHREINER, Chairman, Slides Committee,
Route 2, Box 301, Salem, Oregon, 97303.

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One-quarter page	18.00
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One page	60.00

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Family	6.00	Life	100.00
Family Triennial	15.00	Family Life	125.00

SECTION DUES

	<i>Japanese</i>	<i>Median</i>	<i>Siberian</i>	<i>Spuria</i>
Single Annual	\$2.00	\$2.00	\$1.00	\$1.00
Single Triennial	5.00	5.00	3.00	2.50
Family Annual	2.50	2.50		1.50
Family Triennial	6.00	6.00		3.50
Annual Supporting	3.00	3.00		3.00

IMPORTANT: Section dues, if paid through AIS, MUST be for the same duration as your AIS dues. AIS FAMILY member desiring SINGLE Section membership, PLEASE indicate which person is applying for Section membership.

HOW TO JOIN AN AIS ROBIN

Applications for Tall Bearded Robins should be sent to the National Program Director. For membership in other divisions, application may go to the National Program Director (advising which division you wish to join) or to the chairman of the Division in which you wish to enroll. The Irises in General, General Hybridizing and General Medians Divisions are recommended for fairly new irisarians wishing to gain broad general background on those topics. Regional Robin applications may be sent to your own Regional robin representative, the National Director or the division chairman. For names and addresses of National Robin Program personnel please refer to the directory of FLIGHT LINES on the second page.

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Favorite Guest Irises

Ninety-three judges from 25 states sent in the ballots on guest irises at the Denver meeting. These irises had been registered, had not won an HM, and were enrolled by the hybridizer with the Secretary. Members were asked to vote for not to exceed 15 varieties which they considered outstanding.

In the tabulation below 26 varieties received fourteen votes or more, and are ranked according to the number of votes each received. Schreiner's FUJI'S MANTLE and TAWNY MINK tied for first place with a total of 66 votes each.

The appraisal of non-HM guest irises in tour gardens is apart from the AIS awards system. Any of the varieties eligible to receive an HM award may receive it only if the required number of judges vote for it on the regular judges ballot form.

<i>Variety</i>	<i>Votes</i>	<i>Originator</i>
FUJI'S MANTLE	66	Schreiner's
TAWNY MINK	66	Schreiner's
RADIANT APOGEE	45	J. M. Gibson
GLOWING TIARA	32	Schreiner's
MISS ILLINI	32	D. Steve Varner
SKYDIVA	31	Dr. Frederick Knocke
CHOCOLATE MALT	29	Rex P. Brown
DIPLOMACY	29	Keith Keppel
EXECUTIVE	29	Maynard C. Knopf
LAURIE	27	Larry Gaulter
GREEN ILLUSION	26	Frances Jennings
JEWEL TONE	26	Schreiner's
COUNTY FAIR	25	Glenn F. Corlew
CHARMAINE	23	Mrs. J. R. Hamblen
APOLLO'S GIFT	22	Romona A. Blodgett
LEMON TREE	22	Bennett Jones
WHITE FLUTTER	21	Hilda Fail
CLOUDLAND	20	Dr. L. F. Randolph
SUNNY SPLENDOR	19	Schreiner's
CORAL COMMETS	18	Rex P. Brown
HELLO DOLLY	18	O. T. Baker
MAY DELIGHT	17	Schreiner's
ORANGE BOWL	15	Arnold E. Schliefert
CLOUD CAPERS	14	Schreiner's
NINEVAH	14	Keith Keppel
UXEDO	14	Schreiner's

Colorado State University

BARBARA SERDYNISKI

Denver 1967—weather prediction—rain, rain and more rain. But, iris buffs are a sturdy lot regardless of weather, so come hail or high water the show must go on. Old time convention-goers learn to take the good with the bad, and although skies were cloudy and grey, it was difficult to find a single member with a mood to match the weather.

Thursday, June 1, buses headed for the Long garden, and then proceeded on to the Colorado State University at Fort Collins. The main campus is well designed both in its modern buildings as well as its beautifully landscaped grounds. Two separate iris plantings are maintained on the campus grounds—the AIS guest beds and the display beds, which in turn are one of Region 20's trial gardens.

The 1967 guest beds were very well grown, and one could see that growth and bloom had been excellent up until the time hail and rain had practically pecked the poor blooms to pieces. Freezes in late April had damaged the blooms in the sheaths and fans, and when the bloom finally did appear, the hail completed the job of wrecking what would have been a beautiful iris planting. Now, don't get me wrong! We did see irises, but no sooner than most of us started taking notes, it began to rain again, so we scurried to the building where we were to have lunch.

After lunch the weather was a bit more kind, and we proceeded to look over the display and trial gardens. These beds are planted along Center and University Avenues in the heart of the campus, and one could easily walk along the sidewalks to view the irises. Some 350 varieties are grown here. Most of these are named varieties already in commerce and the clumps were of good size. Along University Avenue RUSSIAN OLIVE was planted as a background, and with the silvery grey foliage, it made a lovely setting for the irises in the foreground. I am truly sorry to report the beds here had received more hail damage than elsewhere. Bloom was tattered to shreds, and we were told they were all LACED varieties. All irises were in good growth, and no one could complain as to the number of bloomstalks. If the weather had just been a BIT nicer, this would have been an iris lover's dream world. The work that proceeds a national convention is monumental, to say the least, and then to have all this work and several years planning shattered to bits at the very last minute is heartbreaking indeed. Personally, I feel the host Region 20 deserves a world of credit for carrying on with flying colors . . . Salute!

The research program being conducted at Colorado State University is most interesting, and hybridizers can look forward to some outstanding developments in the near future. First, is the study of inheritance of tetraploids, which are mostly the newer tall bearded varieties. Crosses from select parents are now being grown. For instance, 800 plants of seedlings from a cross of CLIFFS OF DOVER X CHINESE WHITE. The plants are carefully watched and the results recorded. So far the greatest majority of this particular cross have

turned out to be white and the balance shades of light blue. Exact figures will not be determined for some time, but it will be possible to obtain a numerical ratio and tell a little bit about inheritance of particular crosses. By so doing, it may be possible to pick out recessives, and by inbreeding produce a pure line of whites or blues. Of course, other characteristics, such as number of buds, bloomstalks, branching, width of petals, color and size of beard are also being considered.

The second part of the research program must be successful in order to accomplish the goals of those just mentioned. This then calls for a high percent of seed germination. It has been a difficult task, but by proper environmental control indications point to upward of 90% germination. The entire program is one which will benefit all iris growers, and I hope we have reports from time to time as to the progress being made. My thanks to Prof. Carl Jorgensen for his patient assistance in helping me take the few notes which makes this article possible.

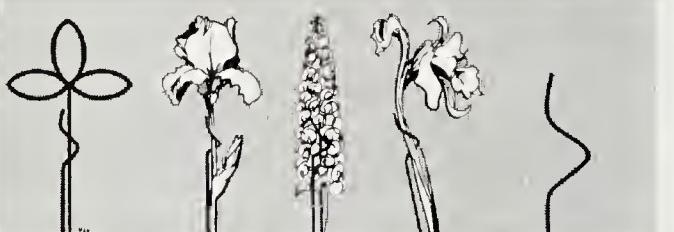
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From the Editor's Desk

THE CONGRATULATIONS of the Society go to Mrs. Herman E. Emig, twenty-year member of AIS, from Columbus, Ohio, who was nominated by the Columbus Citizen-Journal as the Outstanding Gardener of 1966, with a two-column half-page spread on the front page, and over a half page on page 10 of the April 25, 1967 issue. She currently is working on a book in which she is portraying and describing in original water color and verse each of the sixty-two types of flowers she grows in her garden. We note with great interest that each kindergarten class of the Bexley school visits her garden, and that she gives to these children a personally conducted tour, with instructions as to what to look for in a plant and the care and culture of plants.

After listening to about an eighth of a million speeches as a debate and speech coach, it is difficult for any speaker to get to me, but I have to report that Hubert Fischer did just that at the Region 21 meeting. He held the audience spellbound for an hour with his recollections of a half century in growing irises. It truly was an enthralling experience.

Whatever happened to the normal year. It certainly did not show up in Omaha this year. A cold winter without snow cover was succeeded by an unseasonably warm March, without rain, and the irises came on fast. About the time the dwarfs started to bloom, there was a succession of four frosts, just hard enough to mush the bloom that was out, but with no damage to buds. Then about the middle of May a torrid spell which brought on TB bloom with a rush, and boiled down the bloom of even the irises with the best substance in a single day. At the height of the bloom season the rains descended, and thus it is on Memorial Day.

Irene is off to programs at Birmingham, Ala., Overland Park, Kan., and Missoula, Mont. She left strict instructions to dig out the dogs in her seedling patch, and the spade has had plenty of exercise. Earlier, she did have a SDB that looks as if it has what it takes.

Time is a fleeting thing, and just try to fit the pieces together for week ends of rising, with the closing weeks of high school activities and a summer school of 3,000 to get ready for. The one we regretted not being able to make was the Region 18 tour and meeting.

Did make one fast trip to see the Schirmer and Minick gardens. Carl has just sold his drug store, and was enjoying his first full week of retirement. As is always the case, he admitted to being busier than ever. Both of us were impressed with the progress that he has made in developing true pink (red-pink) irises; there were a half dozen seedlings in this pale red or true pink class. We also were impressed with the wealth of bloom which he always is able to get.

The Minnick garden was a riot of bloom in the area where Bob had played the hose during a night when the thermometer had gone far below the freezing mark. In other sections of the garden the bloom was sparse; but the liberal application of water from the hose during the night had saved

the bloom of the main planting, and the bloom there was tremendous. Fortunately for us, most of the new things were in this section, and we got a chance to color class a lot of new ones.

The trip, pressed as we were for time, was a welcome respite from the pressure of modern school administration. It was pleasant to visit with the Schirmers and the Minnicks, the kind of homey folks who are the salt of the earth, and who have contributed so much unselfishly to our Society. Carl was for years treasurer of AIS; and Bob has made an intense study of test garden operation, to the point when I want to know the answers, I ask him.

I flew to Denver early to get some color classification work done on Memorial Day. Jack Durrance met me at the air terminal, and took me directly to the Botanic Gardens. Many things were not in bloom yet, but nearly everything gave evidence of bloom before the convention was over. I was soaked before I finished color classifying the garden, but got it done and planned to go on to Longs. But, the storm was widespread, and there was no possibility of doing any work at Longs, so visited with members for an hour or so. Then word came that hail had almost completely destroyed the possibility of seeing bloom in some of the tour gardens. A few minutes of hail completely ruined gardens which had been brought to the peak of perfection for the meeting.

The Board and the Board-RVP meetings were long and busy ones, and I think some fruitful things were accomplished. As I mulled over the meeting while on the plane going back, I began to assay what AIS is. Obviously, it is a group of people who love irises, who love to grow them, who are interested in their culture, who love to take pictures of them and to show them to visitors, who like to exhibit them at shows, and who wait impatiently for the next season to see the bloom anew. They are people who like to see and discuss the new ones and the improvements that have been made, and many of the members are hybridizers who have dreams of finding a Dykes at the end of the rainbow. They come from every walk and vocation of life, but they have in common the ability to thrill at the architectural beauty of this flower. As I listen to them, I get a strong conviction that they are clever but very practical gardeners in the main.

I think what started me off on this train of thought is the need of the scientific, the need of the student in sufficient numbers to make a revised and improved and scientific new edition of *Garden Irises* practical; and the need of the student of the genus to make an International Symposium of real worth in the development of better and better irises.

These are prodigious undertakings, and can be of real value in the development and improvement of the genus, if we can marshall together our forces to assail in depth the wealth of yet undiscovered factors which can be utilized to build an even more beautiful and gardenworthy flower.

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OCTOBER 1967



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THE BULLETIN *of the* AMERICAN IRIS SOCIETY

NO. 187

OCTOBER 1967

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Kay N. Negus, *Assistant Editor*

4009 North Shannon Ave., Bethany, Okla. 73008

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Mrs. Peggy Burke Grey, 8191 Franz Valley Road, Calistoga, Calif. 94515

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The *Bulletin* is published quarterly by The American Iris Society. Publishing office 2315, Tower Grove Blvd., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2315 Tower Grove Blvd., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see page 3.

The *Bulletin* is printed by The Williams Printing Company, Nashville, Tenn.

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UTAH IRIS SOCIETY, *Pres.*, Mrs. David E. Burton, Salt Lake City, Utah
SEATTLE IRIS SOCIETY, *Pres.*, Harvey Simmons, Seattle, Wash.
WISCONSIN IRIS SOCIETY, *Pres.*, Clarence Protzmann, Milwaukee, Wis.

The conditions under which a state or local iris society may become an Affiliate of AIS are—

1. Its officers and directors must be members of AIS.
2. Participation in the AIS registration and award system is required.
3. Societies having less than 50 percent of their members belonging to AIS, and meeting the other conditions, will be required to pay an *annual* fee of \$25.00.

The names of societies given Affiliate status will be published in the *AIS Bulletin*.

Inquiries and applications for affiliation should be addressed to Mr. Edward E. Varnum, 550 So. Princeton Ave., Villa Park, Ill. 60181.

To SECRETARIES OF AFFILIATES: Please report promptly the names and addresses of new presidents to the Editor as well as to Mr. Varnum.

From the President's Desk

A LETTER from Dr. Allen, Chairman of the National Test Garden Committee, informed me that because growing conditions in the areas of all National Test Gardens and the consequent impossibility of observing the test irises in what might be considered normal bloom, the plants will be grown on for another year and rescored in 1968. There will be no National Test Garden Awards this year.

Here in the Chicago area we had the best bloom in many years, and this was especially appreciated after last year, which was just the opposite. We have tried to grow at least a few of each of the different classes and are adding to them each year. The new dwarfs, both miniature and standard, charm us with their new colors and forms, as do others in the median group, and more find their place in the borders each year. We recall the time when life was much more simple and the classification less complicated when we had dwarfs, intermediate and tall bearded.

The plants emerged from the heavy snow cover in fine condition, and there was very little rhizome rot in spite of the heavy rain which followed in spring. The grand parade of the tall bearded was all we hoped for, with fine colors and abundant bloom. The earliest bloom came on Bucharica and Reticulata. Some newly acquired Cristata, planted in partial shade, are now well established and bloomed; but Verna sulked and barely made it through the winter. The spurias have been moved to the field where they are recovering from last year's water contamination. The Siberian, spuria, *I. psudacorus*, *I. missouriensis*, *I. ensata* and the native irises naturalized in the meadow and along the creek continue to thrive and bloom. Hoogiana and some of the aril hybrids with their interesting colors attracted the attention of many garden visitors and we intend to add more. Fulva bloomed well and it was a pleasure to see MARGOT HOLMES flower stalks after several years. The Japs were harmed by last year's drought but are being coaxed back to new growth and health.

I feel that it is the duty of every judge to grow as many of the different kinds of iris classes as possible in order to become better acquainted with them, to be able to judge them and add to the length of the iris season and enjoyment.

In the south of England we saw many California irises growing in the perennial borders and found Foetidissima growing in the woodland among the azalia and rhododendron. We were too early to see the irises at the Royal Horticultural Society fortnightly show in London, but were thrilled to see a superb stalk of *I. milesii* exhibited. There too we met many B.I.S. members and friends, and names such as Pilkington, Brummitt, Fothergill and Jeffs became persons.

The Reblooming Iris Society has been organized and is a Section of AIS, and they as well as the Species Iris Study Group invite members so they may become self sustaining.

Due to the date, which coincided with that of the Denver meeting, it was with deep regret that I was unable to accept the invitation to be present at

the meeting commemorating the 49th anniversary of the founding of the Presby Garden. Barbara Walther was honored by the National Council of State Garden Clubs with their high award of Special Achievement, by the Garden Club of New Jersey with the Certificate of Merit with Gold Seal, and by the British Iris Society with the Foster Memorial Plaque. Our congratulations for well deserved honors.

So now *I. dichotoma* blooming shoulder high closes a rewarding iris season.

HUBERT A. FISCHER

THE DENVER MEETING



Denver Convention Sign Outside Cosmopolitan Hotel,
Courtesy Mullins Outdoor Advertising Company.

A Day Amongst the "Flag-Lilies"

LARRY L. HARDER

It was a beautiful spring morning in Denver. The sun was shining on the happy buzzing conventioneers as they boarded the buses for the trip south to Colorado Springs. Everyone was in a happy mood. The rains had stopped and we were going to have a lovely day for our tour.

Today was the day we were going to see "clusters of flag-lilies" beautifully grown in the gardens of Dr. and Mrs. J. H. Brown and Dr. Philip A. Loomis. For among our happy throng was a new enthusiast of irises, Mike Sopota, after having been persuaded to come with us by that loveable, laughter-evoking personage Helen McCaughey. Mike was one of the desk clerks at the headquarter hotel, the Cosmopolitan.

Mike wasn't very familiar with our favorite flower. In fact, he admitted

he really didn't know what they were like. "Flag-lilies" was the term he happened to call them. This confusion was caused from hearing irises being discussed as "all my seedlings this year were dogs", and "the flags were beautiful back home this year" and what-have-you. It wasn't long until a general lesson of instruction was presented by the all-knowledgeable group that was around Mike. All Aboard! was being called about that time and the buses were being loaded.

As we rode south in our buses, we enjoyed the lush Colorado hillsides with the snow-peaked mountains as a backdrop. Studded here and there were a variety of wild flowers which held the interest of many of our members, as most iris-lovers have a love of all growing plants.

When we arrived at Dr. Brown's garden, the early morning mist had left a covering of diamond dewdrops glistening on all the foliage. Here is a garden that is 'perfection' at its height of glory. Magnificent is probably one of the best words to use to describe the sight of this garden. The immaculate grooming of the lawns and hedges makes all of us envy the garden for our own. The formality of the landscape in a limited space was jewel-like. One soon noticed that the garden was used to the fullest extent to get a complete season of bloom. We were here enjoying the irises, but a display of roses were just starting, and several long rows of *hemerocallis* were noted. And in back of the garage was the indispensable vegetable garden of the true horticulturist. The grape arbor displayed a beautiful vine promising fruit later in the season.

As we entered this garden under the arched trellis we were impressed with the display of irises. Disappointment was expressed when we were told that Dr. Ralph Adams' garden was taken from the tour because of the late freezes that had destroyed so much of the bloom in his garden. But here, freeze may have hurt some clumps of irises, and the wet weather some of the opened flowers, but the blue and white plicata *Rococo* (Schreiners 1960) was carrying on strong. Dykes Medal award winners *WHOLE CLOTH* (P. Cook 1958) and *RIPPLING WATERS* (Fay 1961) were showing their winning qualities. *GYPSY LULLABY* (O. Brown 1961), tan standards, red-violet falls, was putting on a good display. The opulence of this flower makes it an outstanding variety for our gardens. Gordon Plough's 1960 introduction *CROWN COLONY* was performing nicely. This is a deep purple plicata very heavily stippled on a white ground. A clump of *BLACK SWAN* (Fay 1960) was just starting to open its flowers. *BLUE MOUNTAINS* (Schreiners 1964) was once again exhibiting that huge broom-like stem with its big medium blue-purple flowers. One doesn't need to worry about needing to stake this variety.

ULTRAPOISE (Noyd 1962) is a very strikingly colored flower, a deep gold with a bright red beard. A huge clump of this would be a showpiece in the garden. Bill Schortman's *MEMPHIS LASS* (1957) was in full bloom. This was picked as one of the irises of the year for 1967 by the commercial growers. This rosy plicata that exhibits a charm of its own was growing and performing so very well in a nice clump in Dr. Brown's garden. *HIGH ABOVE* (DeForest 1961) was also at perfection in the light blue class.

I had not seen *DOROTHY PATCH* (Suiter 1961) before. This is a small flowered medium blue. Put on quite a show. Clifford Benson's *MARY PICKFORD* which he introduced in 1959 is a plicata that should still be grown in more gardens.

And then I discovered the radishes! They weren't in the vegetable garden. Dr. Brown had them between his iris seedlings. All he needed to do was discard his seedlings. He, as most hybridizers have found they must do also, discards most of the yearly crop of seedlings. After they are gone it left plenty of room for the radishes to develop later.

Since the seedlings were the last beds behind a beautiful clipped red barberry hedge, and I had just finished enjoying the delicious punch and cookies served by our hosts, it was about here that the bus captain's whistles blew. Off we went to the next garden.

Everyone was enthralled by the hawthorn (*crataegus*) that attracted attention upon entering Dr. Loomis' garden. Here we met the famous hybridizer of the oncobred iris, ELMOHR, that had won the Dykes Medal in 1945. Dr. Loomis was presented the Societies' Distinguished Service Medal last fall.

The huge old trees, the magnificent house, the large beds of irises, the perennial borders and the many kinds of plants tucked here and there all attracted our attention. But Helen McCaughey wasn't in the garden but three minutes before she was by Dr. Loomis' side. She was selling chances on a pair of the old-fashioned ladies high-top shoes. "They would make a beautiful lamp base," she said. "Only a quarter, Doctor!" It didn't take too long until he had out his billfold and was handing Helen money. These funds would go for one of the very worthy causes Helen sponsors for AIS members. You should see the cute white mice or the frogs she had made and was selling.

There were lots of flowers to see in this garden. And many wonderful things that still were in tight bud. Larry Gaultier's 1966 introduction LAURIE was putting on a gorgeous show. This rosy lavender flower is beautifully formed, wide at the haft, a round fall with a dull tangerine beard. Excellent branching in a garden where many a garden judge was examining such qualities of the irises. HIGH LIFE (Schreiners 1964) burgundy-red plicata, STERLING SILVER (Moldovan 1963) a beautiful medium lavender, CANARY FRILLS (Bro. Charles 1965) a frilly yellow and cream combination, WHITE DRAPES (Wallace 1964) a white with outstanding branching habits, and that impressive mulberry-red blend, MARTEL (Tell 1962) were there. A clump of SALEM LASS (Olson 1957) was being photographed repeatedly. A seedling of Dr. Loomis' simply labeled "Late Orange Seedling" was nice. This was a light or pale orange with a different texture to the flower petal than I had seen before in this color class. Another seedling, a purple self, Heacock H-64-7, looked like it was of arilbred breeding. This caught my eye in the sea of flowers at which we were looking. PICTURE PRETTY (Noyd 1962), a soft pink with a white area in the fall, was showing off. It has good branching on a stiff upright bloomstem.

I admired the bed of Johnny-Jump-Up's (*Viola tricolor*) down by the roses. Shasta daisies and a very pale pink form of hesperis were blooming profusely in all the beds. Under the huge pines in one corner of the property was the cemetery for the family pets. Here were planted many irises too, and here is where I found WILLIAM MOHR in bloom. I have grown it in my garden for many years and never have gotten it to flower. The oncos leave one with a strange feeling of wonderment that a flower can be so unusually colored and still be so very beautiful.

All too soon we clambered back in the buses. It was getting near noon-time and it was only a short while and we were at the Flying W Ranch

located in the Garden of the Gods. In a matter of a few minutes they had us eating our lunch and enjoying a fine western show.

On our homeward trip during the afternoon, our bus was one that stopped at the Air Force Academy. The chapel was the highlight of this afternoon trip. The beautiful stained glass windows, the altar, and the music being sung by the choir gave one the feeling of peace and rest, intermingled with awe. Many photographs were taken of the buildings and grounds of the academy. On the homeward trip the discussion soon centered on the many beautiful irises that we had seen and the wonderful preparations that the Denver folks had made so that we could enjoy ourselves.

Even Mike's terminology "clusters of flag-lilies" is apt somewhat for the day—and helps to add another page to iris history.



Dave Niswonger, Charlotte Withers
and Steve Varner with Avis.



SEABORNE (Palmer)
(Photo by Steve Varner)

THE DENVER CONVENTION

BEN R. HAGER

Despite the hail, there were two days of wonderful irises, grown to perfection and displayed ideally. Dr. Randolph's CLOUDLAND was really magnificent, blooming in a large clump with many well-branched stalks, with lots of open flowers, in the well-kept commercial garden of Everett Long. Fail's ALPINE WONDER is a big improvement in one of my favorite colors, that lovely color of the older iris PATIENCE. Scharff's JAILBIRD is more exotically beautiful than it is a novelty. Schreiner's GLOWING TIARA has rich

color and Stephenson's *MOMAUGUIN* is an unusual bicolor of brown and near black. Judy's *BROWN FLARE* is unique; and speaking of different, Baker's *GIRLISH FIGURE* is a flamingo blend with bluish beard. Tucker's *PEBBLES*, a border iris, is the best contrasting reverse amoena in blue and white I have seen. Gaskill's *CHARMING CO-ED* is done in silky apricot, and is suave and sophisticated. Bennett Jones' *LEMON TREE* is such a refreshing color.

When people from all over the country and even from foreign countries get together to look at and talk about one subject, it can be an exciting and memorable experience; and we had a congenial and expressive group at Denver this year. And better hosts could not be found. To visit with these people for four days is a rich and rewarding experience. We hope that all of you will come to the *GOLDEN GATE* meeting in 1968.

DENVER BOTANIC GARDEN— 1967

IRA E. WOOD

The big silver jet from Newark swooped down at noon on the day before the convention began. The sun was shining and the massed plantings of irises along the boulevard from the airport were a welcome sight. Denver had done it again—the convention visitors would enjoy peak bloom for the next four days—and the weather man had been as cooperative as any convention chairman could have wished.

Having had the opportunity to visit the guest plantings at the Denver Botanic Garden following the November meeting of the Board, I was impatient to see the flowers that these beautifully grown plants would produce. We hurried through the formalities of registration, unpacked our photographic equipment, and boarded a local bus bound for York Street. As we awaited the bus on the street corner, we noticed a few dark clouds drifting over the Front Range. Since afternoon showers are not uncommon in Colorado, we debated returning to the hotel for raincoats, but decided to take our chances with the weather.

We hurried to the guest beds and saw long rows of lush green plants with many, many bloomstalks. There were flowers everywhere and a vast array of buds promised many more for the days to come. A fresh terminal bloom on *NATIVE DAUGHTER* (L. Noyd) caught our eye. This was a pale medium-pink self with a coral beard, a tailored flower on a well-proportioned stalk. A low reading on the light meter called attention to darkening skies. Then we heard the thunder that had gone unnoticed during the excitement of this preview of the garden. The film was exposed hastily because the storm was approaching—and it became one of the better pictures in our collection.

Zig-zags of lightning and loud claps of thunder were the unmistakable signals that terminated all iris viewing for the day. We collapsed the tripod, packed the camera and other gear, and ran for cover. The glass dome of the new conservatory was a few hundred yards away and we reached shelter before we were drenched. Torrents of rain made rivers where paths should



MISS ILLINI (Varner)



BROTHER ED (Watkins)
(Photo by Steve Varner)

be. Then hail stones began to beat against the glass of the roof. To walk among the tropical plants while protected from the violence of the storm outside was a novel experience. But it was saddening to think of the damage being done to the garden we had come to see.

A taxi finally came to take us back to the hotel where the lobby was buzzing with questions and rumors. With regret, the chairman announced that the trip to the Botanic Garden scheduled for the first day of the Convention had been cancelled. So we did not return to the Guest Iris Garden until the last day of the Convention, when the undamaged buds had had time to open.

The Denver Botanic Garden is a young garden in process of development. Many changes have been made since the AIS convention in 1963. A fine modern conservatory has been erected and filled with a collection of interesting tropical plants. In addition to the AIS Convention Guest Garden, older plantings of irises are found. Many old favorites and plants retained from the 1963 convention are in beds adjoining the conservatory. The National Test Garden, the Region 20 Test Garden, and the Randolph Collection of species collected in Europe and Asia Minor are here. Other beds display dwarf irises and Japanese irises in their seasons. Medians, arils, Siberians, and spurias complete the educational displays. One would find a succession of visits to the Denver Botanic Garden most rewarding.

Plantings of guest irises in a convention garden are an important feature of an AIS meeting. The Denver Botanic Garden furnished facilities and space where all guest plants could be located in a group of similar plots. Thus,

uniform growing conditions for all plants afforded an opportunity to see, to compare, to evaluate, and to enjoy the accomplishments of iris hybridizers. Statistics taken from the convention booklet are interesting. There were 1008 separate and distinct irises sent by 151 hybridizers who live in 29 different states. Of the total number of irises, 506 varieties were named and 502 varieties were seedlings shown under number. The plants were widely spaced in forty long, narrow beds cut into a large lawn area. I think I walked along each side of each bed, but no reporter could possibly see everything in this vast collection.

A tall show stalk with four well-plaeed blooms and many buds attracted a crowd. It resembled AZURE APOGEE, the fine new pale blue that was awarded the President's Cup for its superb performance in the Long's garden. The label read "D65-10, Durrance," and Dr. Durrance said it was related to AZURE APOGEE. Choosing one clone to be named from this family must have been difficult.

The committee had performed yeoman service in removing flowers damaged by the hail, and there were one or two fresh blooms on many plants. To be blooming at the right time, i.e. after the hail storm, was fortune's gift since one tends to notice first the clumps with many flowers.

Knocke's SKYDIVA was putting on a good show with more than 20 blooms out on the day of our visit. HEATHER HALO (Hamblen), a eolorful rosy violet blend with rust-brown shoulders and a yellow beard, was performing well. WATER MUSIC (B. Jones) was a ruffled pale blue self with a white-tipped beard. This clump had several tall stalks.

Gibson's RADIANT APOGEE, a plicata with orange-yellow markings on a white ground, was a nicely ruffled flower with brilliant contrast. Other new yellow irises of note were LIGHT OF LOVE (O. T. Baker), LEMON TREE (B. JONES), and EXECUTIVE (Knopf).

CHARMING Co-ED (Gaskill), a pale orange self with a tangerine beard, is an advance in this color class. The first flower on Babson's CREDO was beginning to open. This very deep maroon-red self with a brown beard is one I want to see again.

In the Regional Test Garden we stopped to photograph a very large clump labelled 2064-141. The flower was a pale blue self with a blue beard and the stalks were exceptionally well branched.

Caterers served an excellent luncheon, cafeteria style, in the garden. There were tables with gay plaid cloths and folding chairs for those who wished to enhance their sun tans. Many chose to sit on the grass in the shade of small trees which will make a green backdrop for the garden before many years have passed.

After luncheon some of us returned to the guest iris plantings. Others grouped their chairs around a selected seedling and listened to a talk on garden judging by Mr. William T. Bledsoe. Bill has perfected a technique for illustrating the use of the Handbook for Judges which is very effective. He chooses a specimen, usually a plant having some faults, and proceeds to put into words the thoughts that go through a good judge's mind as he point scores an iris. The uniformity of ratings by a large group is encouraging.

We left the Denver Botanic Garden reluctantly on the last shuttle bus. In spite of adverse weather, the irises had put on a good show, and the hard-working committee deserves our thanks for a big job well done.



Viewing the Rain-drenched Irises in the Long Garden.
(Photo courtesy Myron Harding.)

LONG GARDEN

D. STEVE VARNER

This second visit to the Long garden in Boulder again emphasized the importance to hybridizers displaying their irises at a national convention of having their wares grown to perfection. Since all other gardens' bloom was wiped out by hail the day before tours started, it was our privilege to return to the Longs' for a second look one day and one inch of rain later. The graciousness and efficiency of the Everett Long family and their helpers left visitors with that happy feeling of warm admiration that they are "one of us."

Long row plantings of named varieties well grown reminded us that the really good irises introduced in past years are the backbone of our beautiful iris gardens. Lovely as some of the new ones are, given only "ordinary garden care" like some old favorites receive, they may disappoint you.

The combined entree and dessert of the Long garden were the superlatively grown clumps of guests. The large selection of Schreiners' worthy introductions and seedlings were first to be seen by visitors. This display alone should insure solvency for their firm a year or so. Since their catalog contains adequate descriptions, I am just going to list my favorites of their blooming clumps: TAWNY MINK, CRYSTAL BLUE, FUJI'S MANTLE, FIRE BALL, PARISIAN BLUE, JEWEL TONE (one of the best of the reds, but standards fell open here), CLOUD CAPERS (a pleasing combination of colors, but standards lacked stability), GYPSY JEWELS, ROYAL TAPESTRY and ROYAL TOUCH. One of the many Schreiner seedlings I liked was T 758-3, a crystal blue self with deep blue beard. Notes list: T 1420-1 as an excellent orange-bearded light brown; R 122-2 as an outstanding stalk with branching, slightly ruffled rose; and V 270-4 as a smooth colored brown-rose.

Among names less well known to me, BOLDER (Stults) is a flared blue of appealing color. 64-03 (MacKendrick) is a light orchid on white with choice flower form and substance. A pink "MELODRAMA" with excellent branching was just labeled "Davis sdlg." (Wm. Davis). 64-7 (Heacock) is a huge-flowered oncobred appearing red as a red and purple blend on a short stalk, while her 65-7 is a nicely branched deep orchid. R62-2-2 (Riley) is a red and yellow combination which is a real splash of color. SYLVIA RIGGS (Riggs) is a very floriferous "pink plicata" that is pleasing in many ways, but the standards seem short.

All of Dr. Branch's top notch introductions were up to their usual high quality. BLUE BALLAD, WHITE PRIDE, ROYAL FANFARE and BLUE FANTASY were particularly beautiful. Watkins had many lovely blues, but the "stand out" to me was BROTHER ED, a light blue whose wide ruffled, handsome form was distinctive. Palmer, who says she knew me when I didn't know an iris from a dandelion (What is a dandelion?), had her usual dependable good characteristics in her irises, but SEABORNE, a well-branched, deep blue with a strong stalk, and ROYAL RANSOM, the best branched gold-yellow I know, were my choices. Dr. Judy's BROWN FLARE, listed as BB, apparently joins the TBs sometimes, and is a real brown of flaring form which fades to a lighter brown that is still attractive. Plough's COCKTAIL TIME had ruffled form that drew me across the wet field to the rowed planting to identify it.



Mrs. Ev Long, Ev Long and Wilma Vallette
(Photo by Steve Varner)

Dave Niswonger had 33-63, a simply huge yellow with cream overlay in the falls and strong stalk. This dense, well-formed flower has a sheen that took the rain like it was armored. Lyon's MAJOR RED is a distinctive intense maroon. SUNSET BLUES, as grown here, is a huge near amoena with light violet standards and medium violet falls, having at least nine buds per stalk, and is excellently branched. NIGHT MUSIC (Pickard) has an intense purple color not often found. MAUVE MAGIC (E. Smith) is a lacy, light rose with tangerine-pink beard on an excellent stalk. DENVER MINT (Knopf) is a very well branched, lacy medium yellow; and his CRAFTSMAN is the most prolifically flowered ruffled yellow seen here.

Elkins' 61-E-1-S bloomed on a blasted stalk, but this royal purple self with intense beard appears to me to have promise. Marge Hagberg's BUTTERSCOTCH RIPPLES is accurately described in color and form by its name. CHARMAINE (Hamblen) is an open standard, attractive, lacy white and yellow combination. Noyd's WENATCHEE SKIES is an excellently branched blue with less violet than many. JUST HEAVEN (James) is a slight reverse amoena with a show stalk.

My personal choice of all the new ones I saw at this garden is Dr. Durrance's popular AZURE APOGEE. Essentially an azure with deeper azure beard, the flower form, with very closed standards and ample placement of its eight plus buds, gives it that top overall rating. I predict this iris will be extremely popular if it grows elsewhere as it did here.

Finally, to all those hybridizers whose irises did not respond to the Longs' loving care, and to the rest of us who were not fortunate enough to have our irises guested there, all I can say is "Sorry about that!"

DENVER CONVENTION NOTES

VIOLA SPOTTS

Time at last, after months of anticipation, to board the train for the run into Denver for the convention. Instead of a morning of our usual sunshine, the day was dark with a steady drizzle of rain to start the annual gathering. Upon my arrival at the hotel I found everything damp except the spirit of those assembled in the lobby.

By one o'clock we were on our way to visit the garden of Ev and Anne Long in Boulder. Luckily, the reported hails of the previous day had skipped here and we were able to see many of the new introductions plus seedlings in full bloom, if somewhat wet and battered. Since I was not aware that I would be called upon to write these comments, my notes were made only of those in which I was fully impressed for growing in my own garden, with particular attention as to color and form. Of course, the branching and height are factors which should be considered in the overall picture, but I made no notes on these, feeling that the weather we had had in the earlier part of the year had taken its toll, especially on the branching.

Now to the varietal comments, and here again, my notes were not in order as to which garden they were in. The first guest bed in the Long's garden were of Schreiner's introductions and a few seedlings, with the burgundy red plicata, HIGH LIFE, the first to be seen. A short distance away, STEPPING OUT was putting on its usual show, its sharp contrast of blue-black edging the white falls and standards beckoning you nearer to examine more closely its flaring form. Seedling number 1420-1 caught my eye with its bright yellow-brown blending, as did FIREBALL with its bright red colors. Leaving that bed and letting my eyes pick the direction, I headed for the far end of a nearby bed in which a large clump of light blue stalks were standing very erect in all the rain. This was to me the most perfect blue I had ever seen. The darker blue beard was the finishing touch to an iris with semiflaring falls, substance of leather and branching that had each bloom evenly spaced to make each stalk a prize exhibition. This was very aptly named AZURE APOGEE and is being introduced this year by Dr. Durrance. Others that pleased me were: SEAFAIR BALLET, a lovely white self by R. Brown; EXOTIC BUFF, also by Brown, a pale apricot blend, to me; SAPPHIRE FUZZ, a light blue with deeper blue beard; WIDE COUNTRY, pale yellow self; HEART OF FIRE, red; SMOKY MOUNTAIN, a bitone of cream standards with falls of light brown and set off by the orange beard. (On checking, I find Mrs. Smith lists this as chartreuse standards.) TOUCH OF ELEGANCE, a pretty blending of apricot, pink and yellow, and SASHAY, a lovely purple set off by a red beard finishes the named varieties which I have listed, for the Boulder and Fort Collins gardens.

In the garden of the O. T. Bakers which we visited on Saturday, I started off to find HELLO DOLLY, but right inside the garden such a crowd was gathered that passage through was nearly impossible, so I retreated to a shady place to wait for the crowd to move on. Yes, the crowd was surrounding HELLO DOLLY and I never did get near it before we had to leave this perfectly kept acre. Baker's LIGHT OF LOVE as I saw it in the Botanic Gardens is a lovely deep golden yellow with perfect branching.



Sdlg. 33-63 (Niswonger)
(Photo by Steve Varner)



AZURE APOGEE (Durrance)
(Photo by Steve Varner)

By the time we arrived at the Botanic Gardens, the sun was really giving the convention guests a chance to see what our Colorado weather really is, and one didn't tarry long in all that heat. Those I did see in between my trips to shady areas were: Corlew's COUNTY FAIR, a pale yellow; SIGNATURE, pale pink with horizontal falls, also Corlew's as was SILVER SKIES, a medium blue with a silver overlay; Varner's lovely reverse amoena with violet standards and pale violet-tinted white falls, AVIS, holds the top place for reverse amoenas to date. Also, his MISS ILLINI was giving an excellent performance in showing off its bright deep yellow color. The plicatas really won me over this year with PORT ROYAL, a bright blue on a white ground; GOLDEN FILAGREE, orange-yellow on white ground; HAWAIIAN HOLIDAY, blue-black on white; RADIANT APOGEE, same as GOLDEN FILAGREE, but lacking the brown overtones. My list again ends with LEMON TREE, a clear yellow self by Jones. By this time I was happy to retreat again from the sun and didn't make further notes—just looked and enjoyed those which I hope to see another year.

A pre-convention visit to the Wedow and Hurlburt gardens on Sunday gave me a chance to see many of the newer introductions which many of the convention visitors were not able to see, thanks to the fickleness of Mother Nature. These I will list by color: Whites—ABOVE ALL and PIKES PEAK; Reds—MAIN EVENT (don't know how I missed this one before), SWAHILI, nearly black; Yellows—DENVER MINT; Orange-yellow—IRISH BROGUE, LEMON TREE, MISSION SUNSET, a blend, CANARY FRILLS, a bitone with standards more cream than yellow, ORGAN MUSIC, also a bitone; Pinks—NEW ARRIVAL,

JEANIE, NEW FRONTIER and several of Caroline Wedow's seedlings which had the largest cerise beards we had seen on the pink lines. The blues and violets were POLKA LACE; MULBERRY WINE, with its white beard; CONGO SONG, a black-violet; and CHAMPAGNE MUSIC; Bicolors were AMIGO's GUITAR, MILESTONE, MODERN TREND and BON VIVANT. Then the ones I thought were blends and were very garden-worthy were TORCHBEARER and Tompkins' STARDUST, both in the red-brown class, and DANCING RILL, a rose-yellow blend.

Both of these gardens were planted in well-spaced rows, and as is usual, the irises were grown to perfection. I regret that everybody didn't get a chance to see the rows of lovely seedlings from the Gordons, Dr. Durrance and Mrs. Wedow.

DENVER '67

EDITH S. SMITH

The consensus of those attending the national convention in Denver this year was that it was an excellent one, in spite of the adverse weather, which damaged a great deal of the bloom. Everyone there seemed to enjoy it thoroughly, and they are looking forward with great anticipation to California next year.

Many of us arrived in Denver on Tuesday afternoon, and were heartsick when we learned that from one inch to two feet of hail had fallen that afternoon. We just knew that the convention would be ruined by it. Although there was very extensive damage to the bloom, there were still plenty of flowers to see to make the convention a huge success. Some gardens were damaged so severely by this hail that they were withdrawn from the tours, but there were enough left to occupy the convention time fully.

Since the tours were not scheduled to begin until Wednesday afternoon, Tuesday evening and Wednesday morning were spent greeting old friends and making new ones—and just enjoying the fellowship of Iris People. After all, this is always one of the most enjoyable parts of any convention.

Wednesday afternoon we made the first tour, in the rain, to Long's Garden at Boulder. For those of you who have never been there, this is a beautiful garden situated right against the Rocky Mountains. In fact, just across the street on the west, these mountains begin to rise in all their majesty, making a perfect backdrop for the acres of irises on display here. Fortunately, there had been no hail on this garden, so there was lots of bloom, although it had been somewhat damaged by the rain. Here we saw many of the newer irises on display, as well as the older ones.

The first iris I made notes of was AZURE APOGEE by Dr. Durrance. This was a lovely light blue iris, which won the President's Cup in the balloting. Here we also saw the very outstanding, perfectly beautiful, FUJI'S MANTLE by Schreiner in bloom. This iris won the Franklin Cook Memorial Cup, and very deservedly so.

The irises in this garden had the largest blooms I have ever seen in my life—and the brightest colors! They didn't look like the same irises blooming in our garden this spring—much larger and brighter. Here we also saw

Schreiner's SUNNY SPLENDOR, SUTTER'S FALLS, FIRE BALL, CLOUD CAPERS, and many others, together with their red seedling V 212-1.

My notes show that I also liked SEABORNE by Palmer, BROWN FLARE by Judy, Sdlg. 63-100 by Gaultier, Sdlg. 065-2 by Matson, and WISHING HOUR by Corlew.

On Thursday we went, again in the rain, to Colorado State University at Fort Collins, where they had a fabulous guest bed of irises planted especially for this convention, in addition to their regular planting of named irises and their test garden for seedlings. After inspecting the guest garden, we were entertained at lunch there, and heard an address by Prof. Carl Jorgensen of the Horticulture Division of the University. Our day was concluded by visits to the other gardens on the campus.

Here we saw Luihn's DUSKY DANCER, which is a good black. I have a long list of the ones I liked, but too many to mention here. FOREIGN AFFAIR by Nelson was one of the best.

Friday morning, our first stop was at Dr. James H. Brown's garden in Colorado Springs. This is a very beautiful garden, extremely well cared for, and manicured to perfection. He had a great number of excellent seedlings, but did not plan to introduce any of them.

Our next stop was the garden of Dr. Phillip A. Loomis. Here we saw Larry Gaultier's PORT ROYAL and LAURIE and Olson's GOLD CITATION.

From here we went through the Garden of the Gods to the Flying W Ranch, where we had a Western lunch followed by Western entertainment. Then we visited the Chapel of the Air Force Academy, which was really something to behold! We took pictures inside.

Saturday—the first day the sun shone—our first visit was to Baker's Acre in Denver, where we spent an hour or more. The Bakers really have a lot of good irises in a small place. Some of the most interesting were: RESTLESS WIND, LIGHT OF LOVE, HELLO DOLLY, MEADOWLARK HILLS, and PERCUSSION, all by Baker—and all lovely! And, a couple of seedlings by Z. G. Benson, which were interesting and different.

The rest of the day was spent in the Denver Botanic Gardens, where one could well spend a week. Imagine, if you will, 44 large beds of irises containing 1,008 different ones, of which approximately half are named irises and the balance seedlings—from 151 hybridizers in 29 different states. By doing this, you can visualize the treat which was in store for us there! There were so many good irises here that it was impossible to give each one its due attention in the time allotted.

These beds were all especially prepared for the 1967 guest irises for the convention, and because of their uniformity they really gave a sound basis for comparative performances of all the irises there. As is always true, there were many that were not in bloom which we would have liked to have seen, but there were more than enough to occupy our time. Among the outstanding ones we saw were: AVIS and MISS ILLINI by Steve Varner; MYSTIC MOOD by Ghio; DIPLOMACY by Keppel; RUFFLED ROYALTY by Olson; DARK VALLEY by Plough; NATIVE DAUGHTER by Noyd; SIGNATURE by Corlew; and Schreiner's CHORDETTE, TIJUANA BRASS, ETERNAL FLAME and TASTE OF HONEY.

Lunch was served here, and a Garden Judging School was conducted in the afternoon by Bill Bledsoe and Larry Gaultier.

Of course, there were the usual slide shows each evening. Tuesday there

were the Siberians and Japanese; Wednesday, the spuria and aril irises; Thursday, the medians and dwarfs; but the best slide show of all was the one on Friday, featuring all the newer TBs along with the others, with Dr. Durrance manning the projector and Jack Riley furnishing the commentary (except for an occasional comment by Dr. Durrance).

The convention closed Saturday evening with a banquet and Dr. Durrance as MC. The AIS awards were presented by Hubert Fischer, President of AIS. Each person received a rhizome of *COLORADO SKIES*, a 1967 introduction, through the courtesy of its introducer, Dr. Durrance. This seems a most fitting souvenir of the occasion because each one who grows it will be reminded of this convention every time he looks at it.

UNSUNG HEROES

ALLEN HARPER

To my mind, the people most to be both pitied and admired at any AIS annual meeting are the dedicated irisarians who plan and prepare their gardens for convention viewers, only to have them removed from the tour due to conditions over which they have no control.

Such a fate befell four of the anticipated hosts at Denver and one at Colorado Springs during the last AIS meeting. Those who attended this affair are all too well aware of, and those who weren't will never believe the complete havoc the elements—chiefly HAIL—wrought on these gardens. The most unfortunate couples so mistreated were Dr. and Mrs. Jack Durrance, Mr. and Mrs. Charles P. Gordon, Mr. and Mrs. Charles Wedow and Mr. and Mrs. John Hartman of the Denver area, and Dr. and Mrs. R. W. Adams in Colorado Springs.

It was most coincidental that your BULLETIN Editor selected me to report on the first three of these gardens, not knowing at the time that they were to be withdrawn. Realizing the intense amount of preparation involved in addition to the yeoman work these people did in the administration of convention affairs, we felt that they deserved the courtesy of a visit. So Mrs. Harper and I, accompanied by Nelle and Mable Fitch, Matt McHugh and Vivian Buchanan, broke off from the regular tour to pay them a garden call.

Dr. Durrance's garden, which we visited first, was aptly named by him "Strip-tease." Much of the bloom had, in fact been stripped, and that remaining did tease one's fancy into imagining the beauty of the planting in full finery. Perhaps coincidental, but possibly indicative of an unsuspected attribute, was the predominance of pink iris in those remaining relatively unscathed. *PINK ICE*, *CELESTIAL GLORY*, *ONE DESIRE* and *JUST HEAVEN* were notable of the few which permitted complete evaluation. One of the Durrance blue seedlings, 63-1, was also performing beautifully.

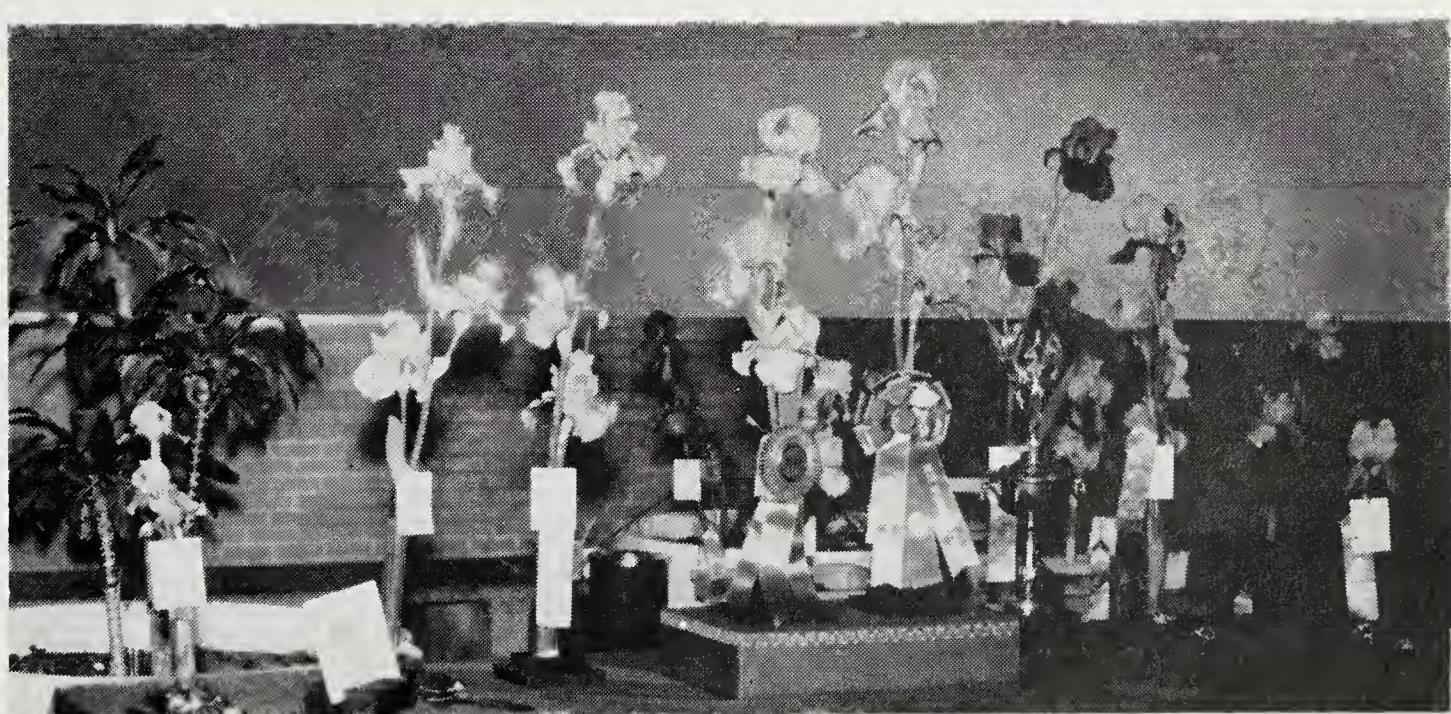
The garden itself is ideally situated. A terraced slope, on which rectangular beds are laid out for easy viewing, was bordered by a mixed iris and perennial planting. Looking west, the mountains seemed almost close enough to touch, the distance being foreshortened by a high fence at the rear, which shut out a good expanse of the valley between.

The Gordon's garden was next visited. As was to be expected, both Chuck and Dr. Durrance were much involved in convention affairs, but Mrs. Gordon graciously sacrificed some of her free time to greet us and to share with us the delights of a riddled but charming garden. The irregular borders flanking a picket fence set off the iris to good advantage in a compact but highly viewable area.

Indicative of the erratic season aside from the immediate weather tricks, was the mixture of types in bloom. Here LILLIPINKPUT and CUTIE were little further advanced than the talls, of which GARDEN PARTY, HELLO DOLLY, PRECOCIOUS (small but crisp), TULARE and DRIFTING SANDS were doing best. Fothergill's 9/34 appealed to me, as did Gordon's 6-62-9, a medium yellow with a white blaze. As a species buff, I was also interested in a clump of *I. montana*. I understand this is thought to be a sub-species of *missouriensis*, but to me it seemed to have an entirely different leaf structure.

We missed finding the Wedow garden on the way over, and Mrs. Gordon offered to show us the way. Due to a missing street sign, however, we ALL got lost, but managed to find it after backing and turning a bit. The Wedows have a commercial garden, and were most generous in taking more of their time than perhaps they should in pointing out the worth while things to see. Here I really fell for CAMELOT ROSE and LEMON TREE. In view of the recent trend in iris fashion toward blended bicolors, I took another good look at FAST TRACK, and decided it wasn't nearly the dog I had labeled it at Memphis. The Wedows had an excellent seedling from a cream seedling x MISSION SUNSET, but I overlooked noting its number.

As an afterthought to the "pink" comment, obviously the completely hail-proof iris has not yet been created, but I wonder if the trend to completely horizontal falls is not in some way responsible for the poor showing made by so many irises at Denver.



Court of Honor Southern Michigan Iris and Hemerocallis Society Show. Photo by Howard J. Hite.

Foster Memorial Plaque to BARBARA WALTHER

The Foster Memorial Plaque has been awarded to Barbara Walther. This award is given only to the select few who have made outstanding contributions to "the furtherance of the genus," and coming during the fortieth anniversary of the founding of the Presby Gardens, it seems a particularly appropriate honor to the guiding genius of this garden and the immense contribution she had made to the realm of iridom. Two plaques were awarded this year, the other to Flaminia Specht of Italy.

At the annual meeting this year, the National Council of State Garden Clubs presented Mrs. Walther with its high award of "Special Achievement" "for her devoted service of forty years to the Presby Iris Gardens." Also this year, the Garden Clubs of New Jersey awarded her its Certificate of Merit with Gold Seal "for forty years of devoted service and leadership at the Presby Iris Gardens."



Mrs. Walther addressing dignitaries at the 40th anniversary of Presby Memorial Gardens.

The Guardian of the Gardens

GORDON BLACKWELL

The greatest historical iris collection in the United States grows in Montclair, N. J., and it is what it is because of its modest guardian, Mrs. Barbara Walther. Though she superintended its care for forty years, this genuinely unassuming lady continually repeats, "I do not want people to think of me. I only want them to think of the Presby Memorial Gardens."

Although she has earned international recognition as an iris expert, this modest matron insists on remaining in the background while her beautiful flowers receive all the acclaim. Furthermore, she dislikes being photographed. Recently when asked to pose, she tried instead to persuade the man with the camera to take pictures of school groups who were touring another section of the garden. "How we would love a photo of those children!" she pleaded.



John Wister, first President of AIS. Fred Cassebeer, former BULLETIN editor, seated to right.

"Please take a picture of *them*." He obliged and now she proudly displays the group picture in which she does not appear.

Mrs. Walther is at ease with all visitors, especially when speaking to youngsters. By the way of introduction, each class receives a short talk that begins, "Across the way we have an elementary school, and these children often come over to the garden. They are the guardians of our irises! If anything goes wrong, they tell us."

In evidence of her true modesty, it is documented that before the gala fortieth anniversary celebration of Presby's founding, which was June 11 of this year, she made a stipulation that her name was not to be mentioned, and that she was not to join the celebrities as a speaker. How could this event *not* include Mrs. Walther? When the master of ceremonies cleverly tricked her into coming to the microphone, there was a standing ovation. The accompanying picture shows her as she said a few words to an intensely appreciative audience.

So unique is Presby Memorial Gardens as a repository of old and new irises that is known throughout the world. A professor behind the iron curtain wrote to them for rhizomes, which were dutifully mailed.

Modern breeders send their triumphs and hopeful seedlings to Presby. Here they are brought into bloom and kept for posterity. Thousands of varieties, including many rare diploids from the nineteenth and early twentieth centuries, are on display. No layman can guess at any one time how many varieties there are, but a faithful volunteer can tell you which is where for she works overtime on the cataloging.

The vast operation—wceding, spraying, dividing (every few years), record-keeping, and endless replacing of lost labels—staggered the imagination. The town of Montclair supplies laborers, but there is always the wish that there could be more. Every year the local women's garden club and other organizations supply over one hundred volunteers, enthusiastic ladies to serve as guides, secretaries and even wceders.

A local official's response to praise summed up what they all say, "Don't thank me. Thank Mrs. Walther. She made me do it!" His glance in her direction made it clear that he loved obeying her wishes.

One elderly volunteer recalled, "I came over to see how things were progressing in the early days of the garden. Barbara told me I'd have to help. This was a surprise because I wasn't even a member of the garden club. She soon corrected that, and I was railroaded into the job." This woman has served diligently ever since.

Many visiting irisarians catch the fire from Barbara's contagious enthusiasm, and look forward to her candid remarks . . . "Why did you come today?" she inquired of a New York visitor. "So much more will be out in a week or two."

"I wanted to see the dwarfs and the intermediates."

"But the dwarfs are finished," she moaned. It is true the miniature dwarfs were "finished," but such a large collection of standard dwarfs and intermediates were blooming that the New Yorker felt well repaid for the trip.

At the height of the tall bearded season she will not permit herself to name current favorites, stating flatly, "I can't. I love them all."

Back in 1927 you could count the number of noted iris hybridizers in America on the fingers of one hand, and now more than 500 registrants bring out hundreds of named varieties a year. The cream of these end up at Presby, and inevitably an iris had to be named BARBARA WALTHER. Dr. Arthur J. Casselman of Camden, N. J., succeeded in persuading her (how is a mystery since she is so self-effacing) to lend her name to his tall bearded introduction of 1959. It is pure white—as is her hair—and the stalk sturdily supports many green buds, symbolizing the vigor that belongs to the one it honors.

During midseason, you can see this iris at Presby, and at almost any season you can find there the modest caretaker herself.

Barbara Walther, the iris world salutes you and your achievement of the Presby Memorial Gardens.

Fortieth Anniversary Celebration of the Presby Memorial Iris Gardens

BARBARA WALTHER

The Presby Memorial Iris Gardens' celebration of its fortieth anniversary was a success in many ways. It was a beautiful sunny day, and while it was not until a week later that the irises were well out, still among the beds were enough in bloom to make them good to the eye.

The festivities also included a week of Montclair iris celebration, during which time some ten trained guides took Montclair school children through the iris gardens. It takes an hour for the trip. These tours were so much in demand that the tours had to be continued through the second week. Hundreds of children were guided through the gardens. News of this spread and the town of East Orange asked if buses of their underprivileged children



Harry Kuesel, Fred Cassebeer and Dr. William McGarvey.

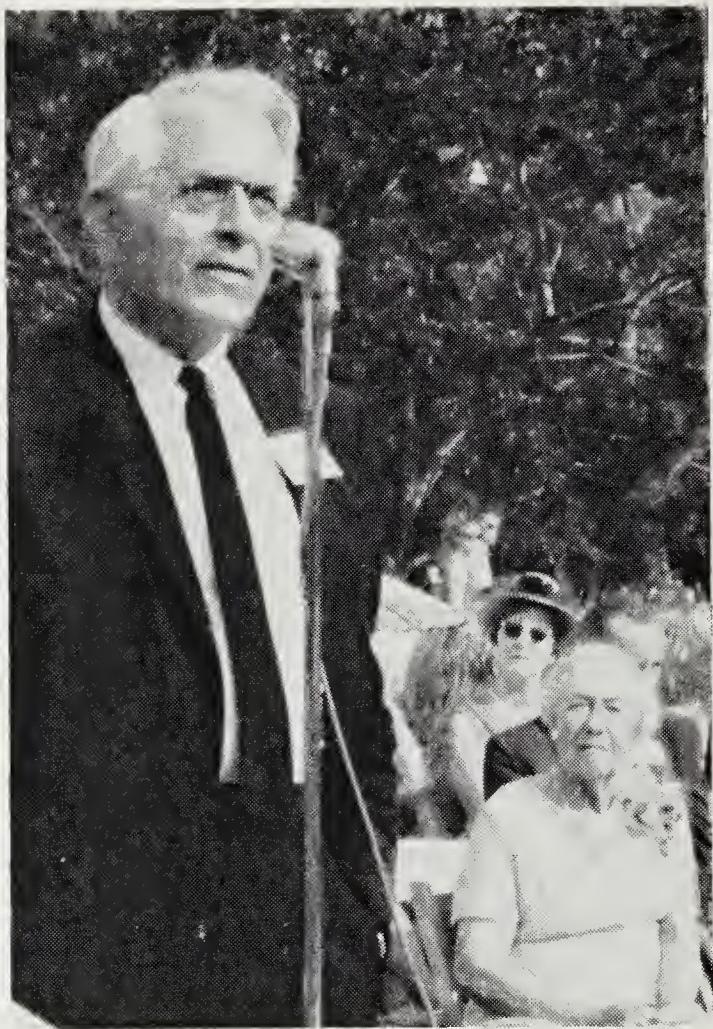
could be taken through; and the County Mental Asylum asked if they could take patients through as therapy. This was done, and we felt it was very rewarding as we watched their faces light up and the delight shown as they walked through the flowers.

The actual celebration ceremony took place in the Iris Gardens. The Mayor presided and after a speech showing the appreciation all of Montclair felt for the Gardens, he introduced many people of interest, including both the incoming and the outgoing presidents of the Garden Club of Montclair, and the members of the Board. These people have endorsed the project from the start and have stood back of it ever since, providing a fund each year, as well as workers; and they formed a vital part of the celebration.

The presidents of the Montclair Women's Club, the Upper Montclair Women's Club, the College Club of Montclair, the League of Women Voters, the Minnie A. Lucey Club, and the Girl and Boy Scout organizations were introduced. Service clubs such as the Chamber of Commerce, the Jay-Cees and the Optimist Club sent representatives. The head of the Board of Education, who cooperates in a very friendly way with the Citizen's Committee, was present; as was former Mayor Dill, now president of the Board of Directors of the Montclair Art Museum. It was the Board of the Art Museum who forty years ago asked the town fathers to have a Memorial Iris Garden in memory of Frank Presby. By this act they caused to happen a living piece of ART for Montclair whose beauty has brought happiness to many, as those who work in the Garden know.



Paul Hoffmeister



Prof. Wm. G. McGarvey

Dr. Charles Hess, head of the Department of Horticulture of Rutgers University, was there and spoke, as were the presidents of Montclair State College and Paul Hoffmeister, American Iris Society RVP. Two friends of the Gardens beloved by its workers, Fred Cassebeer and Molly Price, helped celebrate the event. Mr. Edward Harvey, representing the New Jersey State Iris Society, and Mr. Harry Kuesel, representing the Median Iris Society, also spoke. Another honored guest was Dr. Arthur Casselman, a friend and helper of the Gardens for years.

Mr. John C. Wister was introduced as the speaker of the occasion. In introducing Mr. Wister, the mayor told of how Mr. Wister gave his services in planning the Gardens, and how he showed the committee members how to plant and care for the irises, and how he came almost every year to go over the irises and give the advice needed. His gifts to the Gardens are many, and the Committee feels that without his help the Gardens could never have been the success that they are.

Another honored guest was Mrs. Frances Giommattei, the daughter of Frank Presby. She spoke very interestingly about receiving her daughter in Venezuela a newspaper clipping showing a picture of the Presby Iris Gardens.

Dr. William McGarvey, a well-beloved friend of the workers and who has helped the Gardens in many ways, came to help celebrate the occasion.

The chairman of the Citizen's Committee says that the greatest compliment they ever have received was the coming of Henry Sass to help them celebrate. Through the years they always had hoped to see Henry Sass in the Gardens,

and at last that had come to pass. Among the people Mr. Wister suggested to the Committee to write for help in forming the Gardens were the Sass brothers. A letter came in reply to the request saying that the first good rhizome the Sass brothers had received had been from Mr. Presby, and that they would gladly help, and they have helped every year.

The mayor spoke feelingly of the appreciation of the Montclair citizens for the Gardens, and Dr. McGarvey dwelt on need to provide for the future and to make sure that these Gardens, which never could be duplicated if they were lost, would remain permanently the kind of gardens they are, in their beauty, their diversification and their interest to the world.

After the ceremony, the guides took many people through the Gardens, and later supper was served to about one hundred, by the Citizen's Committee, at the Walther home.

The chairman of the Citizen's Committee and her close friends and helpers, Jane Bonsal and Harriett Treacy, spent the next morning with Dr. McGarvey and Henry Sass in the Gardens. It was a happy time as they asked advice and their guests helped them—always a happy task in bloom time.

CALIFORNIA 1968

Views from the Golden Gate

JOE GHIO

The ocean mist and cool sea breezes envelop you as you stand on the Golden Gate. The vista is spectacular. To the north is the rugged shoreline of Marin County; to the south, the robust and delightful city of San Francisco; to the west lies the vast Pacific; and directly east lies the East Bay and Berkeley, headquarters of GOLDEN GATE IN '68.

On the gently sloping grounds of the imposing Hotel Claremont, headquarters of THE convention and site of the main planting of convention guest irises, the initial planting of over 700 guests from throughout the United States, indeed the world, performed spectacularly this spring. Growth, height of stalk, and size of bloom were unbelievable; a truly fantastic sight to fulfill the fondest expectations! The following are a few, and just a few, of the guest irises which seemed particularly outstanding this spring.

Two varieties stood out as being absolutely unique and outstanding. One had bright lemon yellow standards with broad chalky white falls with a blue cast, edged very precisely in lemon. Add a bluish beard and you have Knopf's future introduction, BAY AREA, appropriately named for the convention site; but unfortunately, it was blooming on all of its increase. Hopefully Maynard will replace it. The other spectacular had huge, lightly ruffled blooms with butterscotch standards and a wine flush at the midrib. The falls are wine-red blending to blue in the center. This is Peterson's LP 65-10 from GYPSY LULLABY X MAIN EVENT.

Several outstanding blues were putting on a show. Knocke's K-32 was a very broad light blue with deep fluting. SEASIDE (O. Brown) is a very huge light to medium blue of lush smoothness and good branching. LAZY



1968 Convention Main Planting on Convention Hotel Grounds.
(Photo by James Whitely.)

RIVER (Hinkle) is a giant medium blue with unusual white veining in the standards and falls. LAKE MATTAWA (Gadd) is a beautiful blue with the rounded onco form. MIA MAID (Julander) is also a fine light blue on the small side. Another huge blue with texturing is Wolff-Hildebrandt's 62-100-7. A very ruffled medium blue with good branching is LAKE WASHINGTON (R. Brown).

In the tangerine bearded class, JANNI and MUSIC HALL (Hamblen) were standouts. The former is a very wide, flaring, serrated light to medium pink, and the latter a big, wide, ruffled apricot-pink. LOVE LETTERS (Keppel) is an apricot blend with some purple patterning at the shoulders. FLAMING STAR (Plough) is a bright, glowing orange which you can't miss.

Many bitones were in evidence. CLOUD CAPERS (Schreiner) with its near white standards and light orchid-pink falls is unique. Also unique is F. A. Brown's 61-88-3. This has pastel grayed orchid-lavender falls and grayed yellow standards with deep fluting—subtle and nice. DIPLOMACY (Keppel)

is a ruffled violet neglecta with excellent form, branching and bud count. LAKE CLEVELAND (Valette) is a very floriferous subtle blue-violet neglecta which had produced numerous increases and stalks in one year.

Several yellow bitones could not be overlooked. BAY AREA is already mentioned. Of a similar patterning is DEBBY RAIRDON (Kuntz), a fabulous flower that was performing well. LAUNCHING PAD (Knopf) has light yellow standards, tinted white, with near horizontal white falls and golden orange hafts and beard. GOLDEN SNOW (Palmer) is similar in form to LAUNCHING PAD. Here the flower is pure white with bright gold shoulders. ANGEL BRIGHT (Rees) is similar, but of different form.

GLOWING TIARA (Schreiner) is a brilliant blend of red, violet, and blue which screams for attention. NINEVEH (Keppel) is also brilliant with lavenderish standards and blended red-violet falls with rounded onco form. Also unique is GENTIAN ETUDE (Hinkle), a huge blend of grey, yellow, and lavender. Schreiner's V-32-B looked to all the world to be a grown-up CUTIE.

The brilliant glowing pure yellow tones of ROYAL GOLD (Hamblen) could not be overlooked. Also brilliant is Gibson's yellow plicata, RADIANT APOGEE. Two other Gibson plicatas which stood out included 1-2PLD with bright yellow standards and white falls shaded red-brown, and 12-2PLE with a violet ground edged apricot-tan with standards solid tan.

From the cool mild climate of Berkeley, which is typical of coastal California, we go to the dry, warm climate of Stockton, which is typical of interior California. At Melrose Gardens in Stockton, the second main planting of convention guest irises is located. Keith Keppel makes the following observations on some of the better irises as seen in Stockton this spring.

EVE (Hinkle) is a very floriferous blue which attracted much attention. MINNESOTA GLITTERS (Bakke-Messer) has unusual color, a self blend of intense pink and apricot. INTEGRITY (Gaskill) is an excellently branched, deep pink with much appeal. CRYSTAL FLAME (Jones) was the best white with red beard. DREAM TIME (Schreiner's) is a lovely ruffled lavender-lilac which cannot be overlooked. Other Schreiner's irises which put on an SRO performance included ROYAL TOUCH, TIJUANA BRASS, ETERNAL FLAME, HIGH LIFE, STEPPING OUT.

California irises which were doing well in their home habitat included the following: Knopf's cream white, WHITE KING, RETA FRY (Terrell), a large ruffled yellow bitone, SECRET AGENT (Dubose), a grown-up version of JUNGLE SHADOWS, FLOUNCED FANTASIA (Austin), a nicely formed and proportioned horned iris, XANADU (Edinger), a big, broad violet-blue plicata, MAHALO (Ghio), with blue standards and ruffled red-violet falls, AD ASTRA (Babson), a big and nicely proportioned yellow bitone, and ROYAL TARA (Harbour), a beautifully branched and ruffled parchment cream.

One of the interesting points of THE convention is that the conventioneer can compare the performance of irises growing under different climatic conditions. The following did well in both Stockton and Berkeley: GOLDEN SNOW, FLAMING STAR, LAUNCHING PAD, NINEVEH, LAZY RIVER.

Stockton is also the location of the Dogpatch. Here the touring viewers will be able to vote for their favorite "Dog." Keith reports that K-9 CAPERS was outstanding, but VIRGINIA WOLFF (bark, bark!) will give it a run for its money! We are sure that each entry will be a howling success!

The delegates will spend a day in the Sacramento area. One of the gardens



1968 Convention Second Main Planting, at Melrose Gardens.
(Photo by James Whitely.)

on tour is the Dunn garden in North Highlands. Mary reports that the following guest irises were impressive this spring: MARSHMALLOW (Olson), a nice warm white self of great width and excellent substance; SPACESHIP (Knocke), Mary saw as a redder version of Rococo, with a long season of bloom; SOUND OF MUSIC and SILVER TRAIL (O. Brown) were both great in all respects. The former is a wide light blue with much personality and the latter a silver medium blue which is of a different hue. SILVER WEDDING (R. Brown) is a lovely large ruffled white with good branching and substance. Two Plough irises looked good: the pink amoena, CHARM OF EDEN; and ALASKAN SUNSET with its apricot standards and golden apricot falls.

All the gardens grow nearly every specie of iris available and Mary comments on some of the spurias she particularly liked. CONNOISSEUR (Hager) is a great spuria done in tan with lavender infusion, many flowers, well branched, and a long season of bloom. FAROLITA (Hager) is a reddish violet with bright golden yellow signal covering most of the fall; wide and well branched. LYDIA JANE (Walker) has white standards and a bright yellow signal which covers almost the entire fall—great! PORT OF CALL (Hager) is a light blue-violet of great width and small signal. STABILITY (Walker) is a pale yellow self which is also well branched with many flowers.

Carmichael is a Sacramento suburb located in the rolling Sierra foothills. Here, the sixty-eighters will view the delightful Carnahan garden. Lois comments on some of the irises which were particularly pleasing in her garden this spring.

LIGHT AND LOVELY (Rees) is a creamy yellow which bloomed in February and again produced two stalks in May. HIGH SIERRA (Gaulter), a beautiful white, good grower, and very large blooms proudly held on well-branched stalks. COUNTY FAIR (Corlew), a canary yellow which is beautifully ruffled and daintily held. BABBLING BROOK (Keppel), a charming flower with so

much elegance and style, a near true blue which will hold your attention as soon as you enter the garden.

FOUNTAIN BLUE (Hamblen) is a large flower of deep blue, sturdy stalk and very showy. 63-065-115 (Babson) has 40-inch stalks with six huge flowers open at once and not at all crowded. Oh yes, a soft blue in color. SIGNATURE (Corlew) is a pale pink and cream blend and so heavily ruffled and textured. It is a crowd stopping beauty.

Lois also mentioned the following irises were very fine: AD ASTRA, ALASKAN SUNSET, ANGEL BRIGHT, NINEVEH, SILVER WEDDING.

Meanwhile back at the Hotel Claremont, the evening shadows are deepening and the sunset is lingering as you take another leisure look at the main planting before the evening activities. And there it is: A preview of GOLDEN GATE IN '68! See you on April 29-May 2, 1968.

SCIENTIFIC RESEARCH FUND

The Northwest Median Iris Group added \$28.56 to the funds of the Scientific Research Fund. As we have noted before, many of the problems in growing plants must be solved with the methods of sound research, and this gift is gratefully acknowledged.

Psuedacorus Irises

ALBERT J. MOTSCH

I have found that the *psuedacorus* iris is a most satisfactory species for growing in our Great Lakes area. It grows in the ponds in the parks, submerged in the water. It also grows very easily in the ordinary garden, and needs very little moisture. For over ten years, I have grown these irises in my tall bearded garden. They seem to be bug and disease free.

Seedlings grow quickly from seed, planted shallow in the fall. In a few years you have flowers. They come in various values of yellow and gold. Flower sizes and signal patterns vary. Good branching is common. I have some with four branches, including the terminal. They have ten or more flowers. One of mine had thirteen flowers, as follows: Lower branch #1, one flower; #2 upper branch, three flowers; #3 branch, four flowers; and the terminal branch, five flowers.

There is an older variety called "variegata" which has leaves similar to "Zebra", green and yellow.

One of my plants produced ten seed pods.

After ten years of growing *psuedacorus* (golds and yellows), I came up with my first color break, a clean cut self in ivory. This has been registered under the name FATIMA.

From what I hear, this species also will grow well in other climates. If you like species, you will need this one. After blooming, the leaves grow taller, and it makes a beautiful landscaping iris.



Opal Brown's 1967 DYKES MEDAL winner, WINTER OLYMPICS. A picture of WINTER OLYMPICS also appears on the cover of the April 1966 BULLETIN. Photograph courtesy Fred Cassebeer.

AWARDS OF THE AMERICAN IRIS SOCIETY, 1967

THE DYKES MEDAL

<i>Variety</i>	<i>Originator</i>	<i>Votes</i>
WINTER OLYMPICS	Mrs. Tom (Opal) Brown	181
<i>Runners-up</i>		
ULTRAPOISE	Mrs. W. E. (Luella) Noyd	71
ORANGE PARADE	Mrs. J. R. (Melba) Hamblen	64
ESTHER FAY	Orville W. Fay	31
MUSIC MAKER	Donald G. Waters	22



ULTRAPOISE (Noyd '63)



ORANGE PARADE (Hamblen '61)

THE COOK-LAPHAM BOWL

FRONTIER MARSHALL	Schreiners	65
<i>Runners-up</i>		
BANG	Tom Craig	49
MAIN EVENT	Les Peterson	32
JEWEL TONE	Schreiners	24
RED SLIPPERS	Dubes-Young	21

THE CLARA B. REES CUP

FLUTED HAVEN	Mrs. L. F. (Serlena) Reynolds	75
<i>Runners-up</i>		
CELESTIAL SNOW	Bro. Charles Reckamp	66
PIETY	Dr. C. E. Branch	39
WHITE PRIDE	Dr. C. E. Branch	33
ARCTIC FURY	Clifford W. Benson	28



FRONTIER MARSHALL
(Schreiners)



FLUTED HAVEN (S. Reynolds '57)

THE COOK-DOUGLAS MEDAL *(Standard Dwarf Bearded)*

BLUEBERRY MUFFINS	Mrs. F. W. (Bee) Warburton	101
<i>Runners-up</i>		
GREEN SPOT	Paul Cook	66
BRASSIE	Mrs. F. W. Warburton	62
ZING	Mrs. Roy (Mildred) Brizendine	56
EASTER HOLIDAY	Dr. J. R. Durrance	50

THE HANS AND JACOB SASS MEDAL *(Intermediate Bearded)*

LILLIPINKPUT.	Geddes Douglas	87
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Runners-up

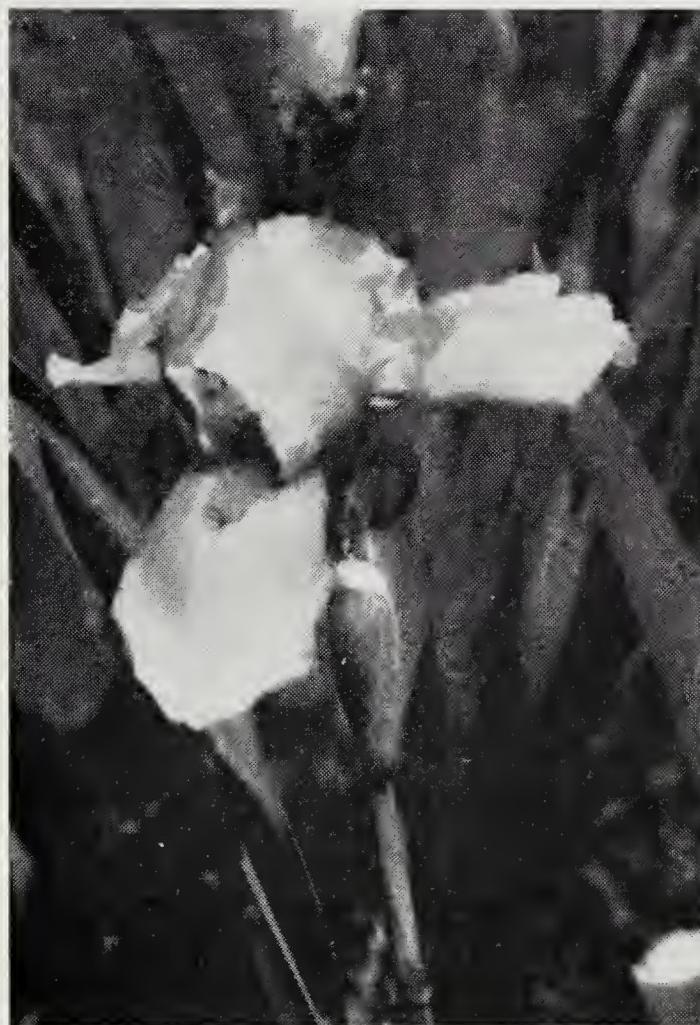
MOONCHILD	Tom Craig	85
CUTIE	Schreiners	81
LIME RIPPLES	Mrs. Rex P. (Alta) Brown	71
CLOUD FLUFF	Mrs. R. E. (Wilma) Greenlee	46

THE KNOWLTON MEDAL
(*Border Bearded*)

JUNGLE SHADOWS	Sass-Graham	113
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Runners-up

BAYADERE	Mrs. Tom Brown	72
FRENCHI	Bennett Jones	66
YELLOW DRESDEN	Mrs. Margaret Albright	43
FAIRY JEWELS	Mrs. J. R. Hamblen	35



BLUEBERRY MUFFINS (Warburton '63)



LILLIPINKPUT
(Douglas)

THE CAPARNE AWARD
(*Miniature Dwarf Bearded*)

KNICK-KNACK	Mrs. R. E. Greenlee	43
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Runners-up

SKY CAPER	Mrs. F. W. Warburton	31
ABLAZE	Walter Welch	21

THE CLARENCE G. WHITE MEMORIAL AWARD
(Arilbred)

SPRING NOCTURNE	Donald J. Boen	59
<i>Runners-up</i>		
WEE SCOT	S. G. Street	55
Rojo GRANDE	Eugene Sundt	32

THE MARY SWORDS DEBAILLON AWARD
(Louisiana)

DIXIE DEB	Frank E. Chowning	27
<i>Runners-up</i>		
KATHERINE L. CORNAY	Charles W. Arny, Jr.	9



SPRING NOCTURNE (Boen)



DIXIE DEB (Chowning)

THE W. A. PAYNE AWARD
(Japanese)

LEAVE ME SIGHING	Fred T. Maddocks	14
<i>Runners-up</i>		
IMMACULATE GLITTER	W. A. Payne	7
WOUNDED DRAGON	W. A. Payne	7

THE MORGAN AWARD
(Siberian)

BLUE BRILLIANT	Fred Cassebeer	43
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Runners-up

MOUNTAIN LAKE	Charles E. F. Gersdorff	27
ROYAL ENSIGN	H. R. Hall	23
PIROUETTE	Fred Cassebeer	22
VELVET NIGHT	Mrs. H. L. (Margaret) Edwards	21

THE ERIC NIES AWARD

(*Spuria*)

ELIXIR	Ben R. Hager	28
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Runner-up

FLUTED BUTTERCUP	Tell Muhlestein	18
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STEPPING OUT (Schreiners '67)



SKYWATCH (C. Benson '64)

THE AWARD OF MERIT
(*Tall Bearded*)

Variety	Originator	Votes
STEPPING OUT	Schreiners	379
SKYWATCH	Clifford W. Benson	200
CHAMPAGNE MUSIC	Orville W. Fay	171
DENVER MINT	Maynard C. Knopf	141
KINGDOM	Orville W. Fay	128
PRINCE INDIGO	Schreiners	124
ARCTIC FURY	Clifford W. Benson	103
JAVA DOVE	Gordon W. Plough	100
CRAFTSMAN	Maynard C. Knopf	92
AMIGO'S GUITAR	Gordon W. Plough	83
COMMENTARY	Sanford L. Babson	82
GOODNESS	Sanford L. Babson	79

Runners-up

WENATCHEE SKIES	Mrs. Walter E. (Luella) Noyd	78
HIGH LIFE	Schreiners	72
GAILY CLAD	Mrs. Ralph S. (Jeannette) Nelson	70
LUNAR FIRE	David F. Hall	69
BRAVE VIKING	Mrs. W. J. (Georgia) Hinkle	66
MALACCA STRAITS	David F. Johnson	66
TRITON	Dr. Odell Julander	65
WHITE PRIDE	Dr. Charles E. Branch	60
ORANGE CHARIOT	Orville W. Fay	58
SEPTEMBER SONG	Mrs. J. R. Hamblen	58
CRINKLED BEAUTY	Schreiners	57
ELLEN MANOR	Clarence J. Blocher	56



KNOTTY PINE
(Goett)



DRUMMER BOY
(Schreiners)

THE AWARD OF MERIT
(Standard Dwarf Bearded)

KNOTTY PINE	John E. Goett	91
SKY BABY	Mrs. Rex Brown	75
SHINE BOY	Mrs. Roy Brizendine	67

Runners-up

CIRCLETTE	John E. Goett	51
EYE SHADOW	Earl Roberts	36
GOLD BUTTONS	Mrs. J. R. Hamblen	35
RICKSHAW	Ben R. Hager	35

THE AWARD OF MERIT *(Intermediate Bearded)*

DRUMMER BOY	Schreiners	108
BARBI	Dr. L. F. Randolph	53
BUTTER BIT	Gordon Plough	44
SUGAR	Mrs. F. W. Warburton	44
<i>Runners-up</i>		
MAROON CAPER	Mrs. F. W. Warburton	38
BLUKEETA	Mrs. Wilma Greenlee	33
DARK EDEN	Mrs. Rex Brown	24

THE AWARD OF MERIT *(Border Bearded)*

BLUE MILLER	Tom M. Brown	103
LITTLE SIR ECHO	Chet W. Tompkins	81
LA NINA ROSA	Eugene Sundt	73
<i>Runners-up</i>		
NATIVE DAUGHTER	Mrs. Walter E. Noyd	62
GLACIER BAY	Bennett C. Jones	51
ROBBY	Mrs. J. R. Hamblen	50



BLUE MILLER
(Tom Brown)



NINEVEH
(Keppel)

HONORABLE MENTION *(Tall Bearded)*

FUJI'S MANTLE	Schreiners	142
RADIANT APOGEE	Gibson	137
LAURIE	Gaulter	126
BABBLING BROOK	Keppel	122
ROYAL GOLD	Hamblen	102

MULBERRY WINE	Moldovan	90
TAWNY MINK	Schreiners	81
GOLDEN PLUNDER	Fay	66
DIPLOMACY	Keppel	64
JEWEL TONE	Schreiners	62
FLAMING DRAGON	Fay	56
COUNTY FAIR	Corlew	55
CLOUD CAPERS	Schreiners	54
LIGHTNING RIDGE	Brown, O.	53
ECHO ONE	Schortman	50
GRAND SPECTATOR	Haney	48
CAMBODIA	Babson	45
MAHALO	Ghio	45
MISS ILLINI	Varner	45
CERAMIC BLUE	Mayberry	44
CREDO	Babson	43
MILADY	Moldovan	43
DRAGON LADY	Brown, O.	41
FLUTED LIME	Noyd	38
LEMON TREE	Jones, B.	38
WHITE TAFFETA	Rudolph	38
LUCILLE TOLMAN	Tolman	37
NOB HILL	Gaulter	37
TASTE OF HONEY	Schreiners	36
COCKTAIL TIME	Plough	35
SOUND OF MUSIC	Brown, O.	35
GOLDEN CHORD	Hamblen	34
GOLDEN SNOW	Palmer	33
HARMONY HOUSE	Marsh	33
WILD MUSTANG	Benson, Z.	33
FAVORITE TOPIC	Schmelzer	31
GLOWING TIARA	Schreiners	31
ROYAL TARA	Harbour	31
BILL NORMAN	Varner	30
CARVED ALABASTER	Schreiners	29
CRINKLED GEM	Schreiners	29
FOUNTAIN BLUE	Hamblen	29
DANCING RILL	Schreiners	28
MAD MAID	Gibson	28
RETA FRY	Terrell	28
ACORN	Hooker	27
DEBRA JEAN	Buckles	27
KISSABLE	Neubert	27
SUNNY SPLENDOR	Schreiners	27
ARPEGGIO	Tompkins	26
BLUE CHIFFON	Schreiners	26
LORNA LEE	Gibson	26
MOUNT EDEN	Ghio	26
SABLE ROBE	Cook, P.	26
CONGO QUEEN	Christensen	25

EXECUTIVE	Knopf	25
DENVER DAWN	Durrance	24
BLUE LEATHER	Craig	23
CELESTIAL SWAN	Terrell	23
EASY STREET	Tompkins	23
HIGH COUNTRY	Christensen	23
HIGH ESTEEM	Tompkins	23
MAUDIE MARIE	Tompkins	23
SMOKY MOUNTAIN	Smith, E.	23
WINTER PAGEANT	Palmer	23
DELICIOUS	Plough	22
JUNA KAY	Buckles	22
SILVER TRAIL	Brown, O.	22
XMAS FIRES	Craig	22
ALASKAN CROWN	Nelson, J.	21
BERCEUSE	Babson	21
BROTHER ED	Watkins	21
CAROLINA PEACH	Powell	21
CAROLINA RUBY	Powell	21
CLOUDLAND	Randolph	21
PORT ROYAL	Gaulter	21
SPANISH GIFT	Shoop	21
SPLASH O' PINK	Hall, D.	21
ANNABEL LEE	Schreiners	20
BLUEBELL LANE	DeForest, C.	20
COUNTRY SQUIRE	Gaulter	20
DAISY POWELL	Hinkle	20
FLAMENCO DANCER	Schreiners	20
GREEN ILLUSION	Jennings	20
HIGH PRAISE	Schreiners	20
HONOR GUARD	Olson	20
MARVALON	Schreiners	20
SCARLET RIBBON	Tompkins	20
SHOWMASTER	Selle	20
SILVER WEDDING	Brown, R.	20
VISITING NURSE	Knocke	20

HONORABLE MENTION (*Miniature Dwarf Bearded*)

EARLIBLUE	Jones, B.	14
GREEN PIXIE	Brown, A.	12
APRIL ACCENT	Brown, A.	11
APRIL VAR	Brown, A.	11
KIP	Salsman	10
TWINKLING STAR	Welch	10
CHERRY HALO	Mahood	5
RICH ACRES	Greenlee	5

HONORABLE MENTION (*Standard Dwarf Bearded*)

LENNNA M.	Roberts	28
GLEAMING GOLD	Roberts	23
BONGO	Brown, A.	17
JUST SO	Benson, Z.	17
MOON SPINNER	Price	17
SERENITY	Goett	16
VELVET TOUCH	Dennis, D.	16
FLAME SPOT	Brown, A.	13
RUSSET DOT	Roberts	13
ZIP	Goett	13
RUBY ROCK	Street	12
SNIPPET	Warburton	12
SWINGIN' MISS	Zuercher	12
MEXICAN DANCER	Smith, E.	10
SPECKLED SPRITE	Price	10

HONORABLE MENTION (*Intermediate Bearded*)

ILLIANA	Greenlee	26
BEEBOP	Plough	23
LEMON FURY	Muhlestein	21
LITTLE BIT BLUE	Plough	18
FROSTED CUPS	Warburton	17
GLIMMER	Greenlee	17
PIXIE SKIES	Hamblen	17
ARCTIC BREEZE	Brown, A.	16
EBONY EMBERS	Brizendine, M.	15
ORIENTAL BABY	Guenther	13
PINK MIDGET	Peterson, A.	13
SING AGAIN	Plough	13
ELFIN SILVER	Roberts	12

HONORABLE MENTION (*Miniature Tall Bearded*)

CLAIRE LOUISE	Dunderman	11
CHARLIE BROWN	Dunderman	6
SHRINKING VIOLET	Hager	6

HONORABLE MENTION (*Border Bearded*)

CRYSTAL BAY	Jones, B.	40
CUB SCOUT	Plough	37
BROWNIE SCOUT	Gaulter	35
CARNIVAL GLASS	Jones, B.	30
TOY SHOP,	Fay	23
LITTLE MARK	Quadros	18

WIZARD	Ghio	16
NIGHT TRAIN	Varner	14
BROWN FLARE	Judy	12
SMOKE SCREEN	Plough	12
ROSIE O'TEE	Tucker	10

HONORABLE MENTION (*Aril and Arilbred*)

NINEVEH	Keppel	104
BIG BLACK BUMBLEBEE	Danielson	16
AMBER ETCHING	Foster	11
SCRUMPTIOUS	Clark	11
HOLIDAY CHEER	Foster	8
PERSIAN ART	Foster	8
KELITA ADAH	Rich	7
LEO TEE	Clark	7
GREEN MAGIC	Brown, A.	5

HONORABLE MENTION (*Pacific*)

RIPPLE ROCK	Lenz	14
GRUBSTAKE	Lenz	12

HONORABLE MENTION (*Siberian*)

EGO	McGarvey	20
SUPER EGO	McGarvey	19

HONORABLE MENTION (*Spuria*)

DARK AND HANDSOME	Ferguson	24
CONNOISSEUR	Hager	23
FAROLITO	Hager	18
PORT OF CALL	Hager	15
ALLEGORY	Ferguson	11
IMPERIAL RUFFLES	McCown	8
RED OAK	Ferguson	8
ARBITRATOR	Ferguson	7

HONORABLE MENTION (*Japanese*)

WORLEY PINK	Worley	10
MY HEAVENLY DREAM	Worley	6
NUMAZU	Hazzard	6
PURELY ORNAMENTAL	Maddocks	5

(REGIONAL TEST GARDEN AWARD)

1-A-65-11	Schafer	5
7-66-1 (X36L)	Gunn, H.	8
7-65-1 (176-52)	Neubert	5
7-66-15 (115-64)	Neubert	5
9 521 (2-06A)	Ulm	5

HIGH COMMENDATION

(Tall Bearded)

<i>Originator</i>	<i>Seedling</i>	<i>Votes</i>
Babson, Sanford	M 131-1	5
Baker, O. T.	HELLO DOLLY	6
	62-4-D	5
Beattie, Ronald	65-36	8
	64-92	5
Benson, C. W.	67-11	14
	66-22	11
	66-17A	10
Berndt, Mrs. J. W.	74B2	5
Bledsoe, W. T.	SOUTHERN HOSPITALITY	7
	BLUE BONANZA	6
Blocher, Clarence	B-189	5
Blodgett, Ramona	64-09	7
Brown, Mrs. F. A.	63-112-A	7
	61-88-3	5
	62-102	5
Brown, Opal	4-13-B-1	12
	PEEK A BOO	5
Buckles, Eugene	63-21	20
Collier, J. W.	64-21-1	5
Corlew, Glenn	CHERUB CHOIR	17
DeForest, Mrs. Fred	66-27	7
Dunbar, Mrs. Bonnie	40-64-10	6
Durrance, Dr. J. R.	AZURE APOGEE	21
	D-65-10	12
	D-63-A	6
Gaskill, Ferris	JANET MARIE	8
	THREE GRACES	6
Gaulter, Larry	63-100	6
Ghio, Joseph	CROWNING GLORY	9
Gibson, J. M.	157-4A	5
Goodrick, Mrs. H. W.	65-4	6
Hamblen, Mrs. J. R.	H61-109	10
	H63-86A	9
	H63-23A	8

Hansen, Cleta	CH-12	5
Heacock, Mrs. S. L.	H 64-7	5
Henkleman, H. H.	GOOD TASTE	5
Hinkle, Mrs. W. J.	X-8-2	14
Hooker, Lerton W.	GOLDEN CHARMER	6
Housley, Mrs. Howard	Q 133 B	15
Julander, Dr. Odell	J-65-8	17
	J-66-46	13
	J-64-B	6
Keppel, Keith	LOVE LETTERS	5
Knocke, Dr. Frederick J.	K-32	5
Knopf, Maynard	64-36	5
Lyon, David	64-10-9	7
Marsh, James E.	65-33	5
Mayberry, George R.	62-45-3	12
	62-10-1	6
McCaughey, C. E.	RASPBERRY PARFAIT	8
Meyers, F.	Meyers sdlg.	6
Moldovan, Steve	66-27	10
	SEVEN LEAGUES	7
	65-27	5
	65-75	5
Muhlestein, Tell	T-228	5
Newhard, William	699-1	10
Ney, Mrs. George	60-2	8
Niswonger, O. D.	33-63	61
	SAPPHIRE FUZZ	6
Noyd, Mrs. Luella	N 67-57-23	5
Olson, Marvin	65-25A	8
	66-7C	8
	66-2A	7
	66-6B	6
	66-7B	5
Palmer, Dorothy S.	6565A	15
	13563A	11
	965D	10
	8465A	9
	5565A	6
Peterson, Les	LP 66-300	11
	LP 65-10	9
Pickard, Cora May	C-4622A	6
	C-264	5
Plough, Gordon	63-46-86	9
	EXOTIC WINGS	6
Protzmann, Clarence	64-10	8
Reinhardt, Mrs. Robert	67-9	5
Reynolds, C. M.	WONDERFUL ONE	8
Riley, Joseph O.	R 62-20	6
Roe, Bernice R.	66-1	6

Rudolph, Nathan H.	65-65	10
	62-54	6
	65-74	6
Schreiners	T 1420-1	23
	MATINATA	20
	WAR LORD	11
	W 395-A	8
	V 270-4	6
	V 212-1	5
Shoop, George	63-18-2	5
Smith, Eva T.	64-693	14
Spence, Herbert	62-8-4A	13
Tallant, Mollie	66-26	8
Tams, Mrs. Merlin	T 13-65	5
Terrell, Collie S.	T64-21	7
	WINIFRED McCOMBS	6
Theurer, Mrs. Herman	1-T-67	5
Tolman, Bion	60-97-1	5
Tompkins, C. W.	SAPPHIRE SHORES	5
Tucker, James	224X (PAWNEE PRIDE)	11
	158A (MORNING KISS)	10
Wall, Dr. Hugo	62-21W	5
Weber, Ethel	57-7	5
Young, Mrs. Robert	Y3031	5

HIGH COMMENDATION (Standard Dwarf Bearded)

Originator	Seedling	Votes
Newhard, William	716-1	8
El Dorado	13-66	8
Roberts, Earl R.	DOVE WINGS	7
Rogers, Willard	496402	5

HIGH COMMENDATION (Intermediate Bearded)

Brizendine, Mrs. Roy	MB-41-62	14
Greenlee, Mrs. R. E.	64-5	5
	66-30	5
Hamblen, Mrs. J. R.	M62-16	7

HIGH COMMENDATION (Border Bearded)

Durrance, Dr. J. R.	D 66-1	11
Hamblen, Mrs. J. R.	H61-86	8
Hansen, Cleta	CH-341	5
Minnick, Robert	M-49	5
Peterson, Les	LP 65-15	13
Pickard, Cora May	C-2614	8
Reynolds, Mrs. Gladys	SWEET AND LOW	9

Sheaff, Marilyn K.	62-21-Y	6
	62-21-X	5
Tams, Esther	T-17-65	5
Tolman, Bion	63-69-1	7

HIGH COMMENDATION (*Aril and Arilbred*)

Foster, Doris	66-36-6	6
Hunt, Gene	ORD-64-1	7
Mayberry, George	61-25-1	10
Rogers, Mark	64-17-B, (SARACEN PRINCE)	5
Tate, H.	65-5-A	6

HIGH COMMENDATION (*Louisiana*)

Arny, C. W.	50-P-65	5
Granger, Marvin	BQ 66-16	5
MacMillan, W. B.	MARGARET HUNTER	5
Patin, Jules	MARK FONTENOT	5
Sahuc, Nolan	65-BC-14	5

HIGH COMMENDATION (*Pacific*)

Stambach, George	52-60	5
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HIGH COMMENDATION (*Spuria*)

Ferguson, Walker	66-3	5
	66-7	5

HIGH COMMENDATION (*Siberian*)

Kallam, G.	66-5	5
Varner, D. Steve	613 (ILLINI ENCORE)	5

THE CUP WINNERS AT DENVER

THE FRANKLIN COOK MEMORIAL CUP	
FUJI'S MANTLE	Schreiner's
THE PRESIDENT'S CUP	
AZURE APOGEE	Dr. J. R. Durrance

POPULARITY POLL, 1967

The Twenty-eighth Official Symposium

Listed below are the results of the Popularity Poll conducted by the members of the American Iris Society to determine the one hundred favorite iris varieties of the year from those eligible for this honor.

Eleven newcomers found their way into the list. These are: GINGERSNAP (41), IRISH LULLABY (48), DENVER MINT (49), CHRISTMAS TIME (59), BLUE PETTICOATS (70), LILAC CHAMPAGNE (70), MUSIC MAKER (73), KINGDOM (78), AMIGO'S GUITAR (94), MILESTONE (98), and SOARING KITE (100).

These replace ARCTIC FLAME, BELTON BEAUTY, CATHEDRAL BELLS, COURT BALLET, DAWN CREST, DOTTED SWISS, DREAMY, LYNN HALL, MISSION SUNSET, MY HONEYCOMB, PALOMINO, and SYMPHONY.

The favorite one hundred varieties this year, their position last year, and the number of votes cast for each are as follows:

Position				Position			
1966	1967	Variety	Votes	1966	1967	Variety	Votes
1	3	RIPPLING WATERS	747	30	40	BLUE BARON	285
2	10	STEPPING OUT	666	31	65	RIBBON ROUND	277
3	1	AMETHYST FLAME	661	32	32	FLUTED HAVEN	269
4	2	ALLEGIANCE	601	33	33	CHINESE CORAL	263
5	12	WINTER OLYMPICS	593	34	47	SKYWATCH	261
6	4	PACIFIC PANORAMA	566	35	30	SABLE NIGHT	258
7	7	ROCOCO	500	36	34	CAYENNE CAPERS	257
8	14	ULTRAPOISE	481	39		LICORICE STICK	257
9	11	ORANGE PARADE	475	38	26	FROST AND FLAME	255
10	5	BLUE SAPPHIRE	461	39	29	BUTTERSCOTCH KISS	247
11	9	WILD GINGER	433	40	28	MARY RANDALL	241
12	16	ESTHER FAY	425	41		GINGERSNAP	238
13	6	WHOLE CLOTH	420		36	TECHNY CHIMES	238
14	13	VIOLET HARMONY	395	43	38	BRASS ACCENTS	235
15	8	CELESTIAL SNOW	376	44	45	HIGH ABOVE	225
16	20	CELESTIAL GLORY	365	45	50	GRACIE PFOST	220
17	18	OLYMPIC TORCH	364	46	72	MARTEL	215
18	23	HENRY SHAW	359	47	35	FIRST VIOLET	208
19	15	BLACK SWAN	355	48		IRISH LULLABY	206
20	17	EDENITE	345	49		DENVER MINT	205
	24	ELEANOR'S PRIDE	345	50	61	CORABAND	202
22	19	DOT AND DASH	340	51	37	DARK FURY	194
23	24	RAINBOW GOLD	331	52	45	UTAH VALLEY	193
24	41	ONE DESIRE	312	53	58	PIERRE MENARD	190
25	27	GYPSY LULLABY	303	54	51	GOLDEN MASTERPIECE	189
26	53	STERLING SILVER	302	55	62	PIETY	186
27	21	INDIGLOW	298		84	PRINCE INDIGO	186
28	49	WINE AND ROSES	296	57	31	HAPPY BIRTHDAY	185
	21	MELODRAMA	296		52	PRETTY CAROL	185

59	CHRISTMAS TIME	183	80	48	BLACK TAFFETA	150
60	54 CAPTAIN GALLANT	182		84	CLIFFS OF DOVER	150
61	57 SNOW GODDESS	181		91	MOON RIVER	150
62	59 MILLIONAIRE	179	83	97	CHRISTMAS ANGEL	148
	63 WAYWARD WIND	179		79	LADY MOHR	148
64	44 EMMA COOK	176		73	PINNACLE	148
65	43 CHINQUAPIN	175	86	95	EVER AND EVER	146
	67 MISS INDIANA	175		55	POLKA TIME	146
67	66 CHAMPAGNE MUSIC	174	88	69	BRAVADO	144
	86 CROSS COUNTRY	174		76	CLAUDIA RENE	144
69	60 LIMELIGHT	173	90	77	ELMOHR	143
70	BLUE PETTICOATS	169		89	TEA APRON	143
	LILAC CHAMPAGNE	169	92	82	VALIMAR	142
72	42 BANG	168	93	79	BRONZE BELL	140
73	56 GLITTERING AMBER	164	94		AMIGO'S GUITAR	139
	MUSIC MAKER	164		78	CASHMERE	139
75	74 GALILEE	161	96	82	CRINKLED BEAUTY	138
76	69 JUNE MEREDITH	158	97	81	LULA MARGUERITE	136
77	63 TRULY YOURS	156	98		MLESTONE	135
78	KINGDOM	153	99	68	SWAN BALLET	132
79	74 INCA CHIEF	151	100		SOARING KITE	131

BRITISH IRIS SOCIETY AWARDS

Dykes Medal
 Souvenir de M. Lemon Trophy
 Hugh Miller Trophy
 Pilkington Award
 Foster Memorial Plaque

BLUE-EYED BRUNETTE
 SOLENT BREEZE (Median)
 CAMBRIDGE (sibirica)

Hall
 Taylor
 Brummitt
 Jeffs
 Walther
 Specht

FLORENCE AWARDS 1967

1 CHRISTIE ANNE
 2 64-36
 3 SUNSET SNOWS
 4 CORABAND
 5 16-Y-16
 6 EASTGATE
 7 1 Y-5
 8 ADELINE
 9 61-MB 1
 10 STERLING SILVER

Larry Gaulter
 Maynard Knopf
 Jean Stevens, New Zealand
 Melba Hamblen
 Serlena Reynolds
 Edmund Fankhauser, Australia
 Serlena Reynolds
 Odette Perrier, France
 Viktor von Martin, Germany
 Steve Moldovan

Among the American winners in specific classes were Larry Gaulter with CHRISTIE ANNE, Serlena Reynolds with 16-Y-16, and Kenneth D. Smith with ENTERPRISE.

Judges' Choice 1967

Following are the results of the fifteenth annual Judges' Choice balloting. Eligible this year were the winners of the Honorable Mention Award in 1966 and 1967.

<i>Place</i>	<i>Variety</i>	<i>Originator</i>	<i>Votes</i>
1	GINGERSNAP	Schreiners	196
2	IRISH LULLABY	Steve C. Moldovan	178
3	LILAC CHAMPAGNE	Mrs. J. R. Hamblen	150
4	CHRISTMAS TIME	Schreiners	134
5	BLUE PETTICOATS	Schreiners	127
6	FUJI'S MANTLE	Schreiners	126
7	MILESTONE	Gordon W. Plough	125
8	FRONTIER MARSHALL	Schreiners	103
9	MAY MELODY	Mrs. J. R. Hamblen	103
10	SOUTHERN COMFORT	Mrs. W. J. Hinkle	102
11	LAURIE	Larry Gaulter	95
12	BABBLING BROOK	Keith Keppel	92
13	ROYAL GOLD	Mrs. J. R. Hamblen	91
14	ORCHID BROCADE	Nathan H. Rudolph	90
15	RADIANT LIGHT	Orville W. Fay	85
16	RADIANT APOGEE	J. M. Gibson	84
17	NIGHT SONG	Walter Luihn	82
18	SWAHILI	Gordon W. Plough	80
19	TAWNY MINK	Schreiners	80
20	DEBBY RAIRDON	Mrs. Hilbert Kuntz	77
21	CAMELOT ROSE	C. W. Tompkins	76
22	JILBY	Larry Gaulter	72
23	MULBERRY WINE	Steve C. Moldovan	70
24	WENATCHEE VALLEY	Mrs. W. E. Noyd	68
25	SKYDIVA	Dr. F. J. Knocke	65

Runners-up receiving 37 or more votes

DIPLOMACY (Keppel)	58	DASHING PRINCE (C. W. Benson)	43
COUNTY FAIR (Corlew)	52	ECHO ONE (Schortman)	43
GRAND ALLIANCE (Plough)	52	WILD PLUM (Plough)	43
HAWAIIAN HOLIDAY (T. Brown)	51	JEWEL TONE (Schreiners)	39
PALISADES (Plough)	49	MAHALO (Ghio)	39
GOLDEN PLUNDER (Fay)	46	RAINBOW VALLEY (Plough)	39
MISS ILLINI (Varner)	46	LIGHTNING RIDGE (O. Brown)	38
SUNSET BLUES (Roe)	46	CERAMIC BLUE (Mayberry)	37
AIR DE BALLET (C. W. Benson)	45	CRINOLINE (Schreiners)	37
CANARY FRILLS (Reckamp)	45	DISTANT HILLS (Marsh)	37
SEABORNE (Palmer)	45	FLAMING DRAGON (Fay)	37
Avis (Varner)	44	SOUND OF MUSIC (O. Brown)	37

Irides other than tall bearded which received 22 or more votes. (In cases where no cultivar of a section received this number of votes, the leader is listed).

Miniature Dwarf Bearded

CRADLE CAPERS (A. Brown)	19	GAY JEWEL (M. Brizendine)	19
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Standard Dwarf Bearded

GRACE NOTE (Hamblen)	78	VELVET TOUCH (Dennis)	27
ORANGE CAPER (Warburton)	35	LENNA M. (Roberts)	27
JOY BRINGER (M. Brizendine)	32	MOONBRIGHT (Keppel)	25
MOON SPINNER (Price)	29	MARINKA (Dennis)	23
PAMELA ANN (Goett)	29	LITTLE LANE (Plough)	22

Intermediate Bearded

LEMON FLURRY (Muhlestein)	38	DILLY DILLY (Warburton)	25
ILLIANA (Greenlee)	27	LE SABRE (Plough)	22

Miniature Tall Bearded

PIXAKEET (Roberts)	20
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Border Bearded

LITTLE BOWKNOT (Hooker)	57	CANDY SWEET (Plough)	30
BROWNIE SCOUT (Gaulter)	45	CUB SCOUT (Plough)	30
CRYSTAL BAY (B. Jones)	39	ELLEN Q. (Peck)	26
TOY SHOP (Fay)	37		

Aril and Arilbred

NINEVEH (Keppel)	134	LAHARA (Sundt)	23
SONICE (L. Peterson)	27	BIG BLACK BUMBLEBEE	
ASPEN COUNTRY (McClure)	25	(Danielson)	22

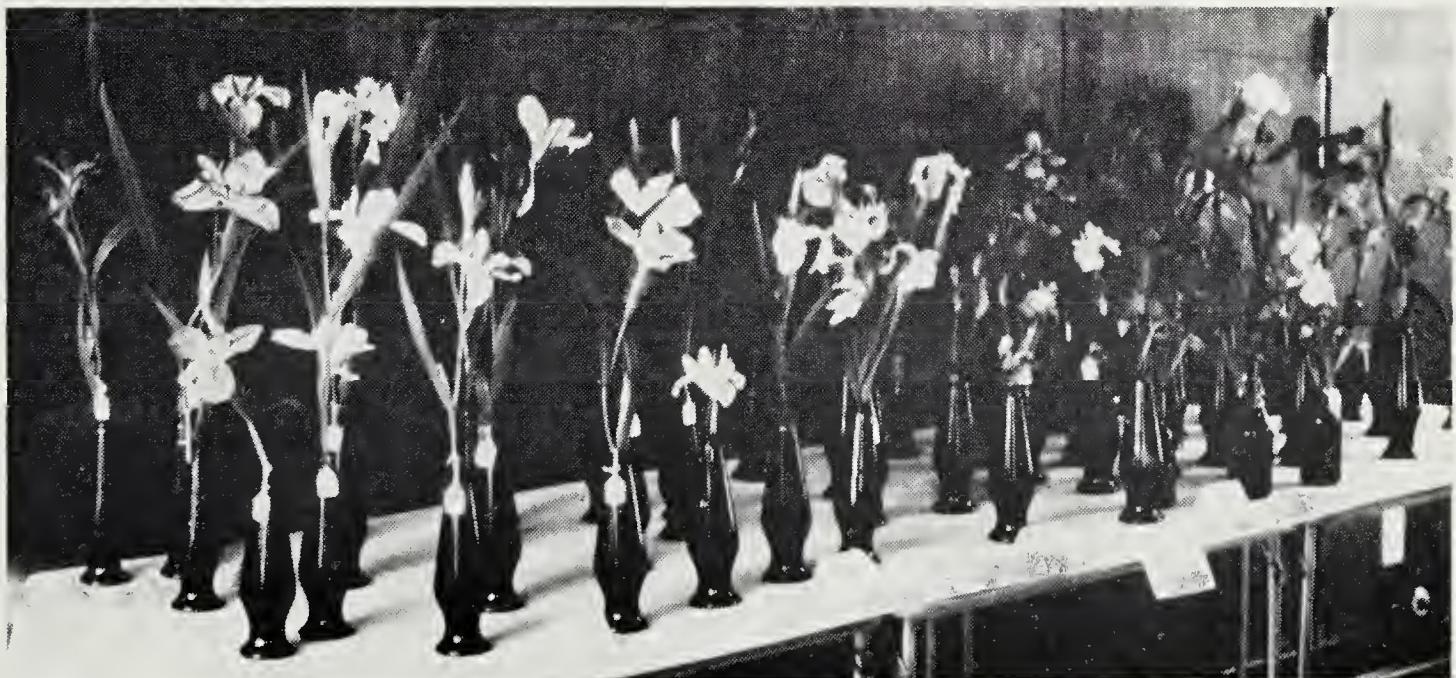
Geisha Gown (Maddocks)

SNOW PEARL (Arny)	10
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RIPPLE ROCK (Lenz)	16
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MANDY MORSE (Spofford)	23
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DARK AND HANDSOME (Ferguson)	25	SUPER EGO (McGarvey)	22
BARITONE (Ferguson)	24	CONNOISSEUR (Hager)	22



Mrs. Jesse Cox's Exhibit of Beardless Irises at the Hot Springs, Arkansas, Show. Japanese, Louisiana, Siberian, Spuria, and a Douglasiana. Photo courtesy L. L. Jester.

IRIS IV 1967

RALPH and HELEN LEWIS

The 1967 iris season, as we saw it, was quite disappointing. Here at home three very warm spells during the winter and spring were all followed by severe cold spells. As a result, bloom was far below normal in quantity, if not in quality, and the season was very short, making it impossible to cover as many gardens as we had hoped. In Region 4, the mountain gardens and those close enough to the ocean to benefit from its tendency to modify the temperature extremes, fared by far the best. On the bright side, plant loss was small even if bloom loss was heavy. Another side effect was that many irises had no pollen at all so that getting the desired crosses was difficult. Color seemed unusually deep and intense, due again to weather conditions, I suppose.

The varietal comments given here are based on visits to the Wilson, Jones, Elsevier, and Cannon gardens here in Durham, as well as our own; to Loleta Powell's garden at Princeton, N.C.; to the Witherspoon, Gatling, and Dughi gardens in Raleigh, to the Claude O'Brien, Parham, McKenzie, and Johnston gardens in the Greensboro and High Point area; to Mary Nifong's garden at Kernersville; and to Ray Alexander's and Wilbert Owen's gardens at Washington, N.C. Gardens outside of North Carolina included Steve Moldovan's at Avon, Ohio (We were early for most of the tall bearded bloom there but saw a lot of fine dwarf irises); the Don Waters' garden at Elmore, Ohio; and Emma Cook's at Bluffton, Indiana. At Mrs. Cook's our visit coincided with the regional tour of her garden. By the time we got to Iowa and Nebraska the irises were pretty well through. We did see a couple of late spurias in the Michigan State University gardens at East Lansing.

We did not see many seedlings, but Loleta Powell had some fine ones which we shall discuss under color headings, and Claude O'Brien had a row of blacks which we feel warrant selection and introduction of one or more. A few of our own dark blues made us happy.

WHITE

We have a fine lot of modern whites that are truly exciting.

FLUTED HAVEN (Reynolds '58). (**SNOW FLURRY** × **CLOUD CASTLE**). Not new, this superbly formed, beautifully ruffled and heavily substanced iris is one of our standards of comparison. It is truly an excellent iris and is a good garden performer as we have seen it. One of Mrs. Reynolds' all time greats.

CHRISTMAS TIME (Schreiner '65). (**MAY HALL** white sport × **ARCTIC FLAME**). An exciting new white with a brilliant red beard. The flower is well shaped with good flare, broad petals, excellent substance and good branching. This was one of our new ones that bloomed in spite of a season in which many fine new plants did not bloom. We believe that this is a really outstanding new iris.

WHITE WATERS (Waters). We just had not seen this before. In Don's garden it was an outstanding variety and is one we want.

TAMINO (Schreiner '65). 16". This is a fascinating little iris, well formed and with blue lines forming a patch or spot around the beard on wide spread falls. We liked it.

WINTER OLYMPICS (O. Brown '63). (**POET'S DREAM** × **ELEANOR'S PRIDE**). A flower that is excellent in every respect and one that has performed well here.

FROSTED STARLIGHT (Ghio '62). (**NEW SNOW** × **CHIVALRY**). A pale blue-white or very light blue with domed standards, flaring falls and nice ruffling. From our own observation we chose to list this among the whites. We liked it.

FIRST COURSHIP (Ghio '63). (**JANE PHILLIPS** × **FROSTED STARLIGHT**). A fine heavily substanced white that has a waxy texture. Form is good, with tight standards and flaring falls, and the flowers are nicely waved. New to us and we liked it.

NINA'S DELIGHT (Ghio '64). ((**Gaulter** sdlg. ((**VIOLET HARMONY** × **MARY McCLELLAN**) × (**FROSTED STARLIGHT**))). A finely ruffled and laced white, excellent in all respects as we saw it, and one we want.

RUFFLED VALENTINE (Brizendine '62). (Pink sdlg. × **MAY HALL**). A very flaring, red-bearded white that shows excellent substance and pleasing form. It grew tall in a season when many did not.

Other whites that performed well here were **SNOW GODDESS**, **SWAN BALLET**, **FROST AND FLAME**, **CELESTIAL SNOW**, **CURL'D CLOUD**, and **FLYING SQUADRON**.

CREAM AND CREAM EFFECT

FRENCH LACE (Plough '63). (**WHIR OF LACE** × **CLOUD DANCER**). This might be classed as a creamy white, but to us it was creamy enough to rate as pale cream with a yellow flush at the throat. A well-formed flower of good substance that is very much frilled and laced. One of Gordon Plough's many real good ones.

MAY MELODY (Hamblen '65). (**VALIMAR** sib. × **JUNE'S SISTER**) × (**COTLET**) A nice iris. The tight standards are yellow with flaring cream falls set off by a red-gold beard. Petals are nicely ruffled. Branching was good in a year when branching was well below standard in most of the gardens we visited.

DREAM MAIDEN (E. Smith) (**IDAHO GOLD** × **ALICE LEMEN**). A nice flower in every respect. Standards are yellow and falls are cream with a golden border. Form is good, with tight standards and flaring falls. Again, branching was excellent.

ADORN (Cliff Smith). (**LEADING LADY** × **LINDORA**). An old favorite with us, this yellow and white iris is, in our opinion, one of the real good irises in this color class. It did well here this year.

Other nice cream irises were **ICE'N'LIME**, **IVORY GOWN**, **SOARING KITE**, **DESERT SONG**, **BRIGHTSIDE**, and **CRINKLED IVORY**.

YELLOW, GOLD AND ORANGE

ORANGE CHARIOT (Fay '64). (**CHINESE CORAL** × **PRAIRIE BLAZE**). An apricot-orange flower with a coral-red beard. The flower has excellent size and substance, with only light ruffling. This is reliably reported to be a most excellent parent.

LEMON FLURRY (Tell '65). (**Doriot A-34-57** × **MOHR LEMONADE**). A fine yellow intermediate with a touch of lemon in its color. The flower has excellent form and substance, with a deeper self beard. Good branching and an excellent performer and increaser.

MINER'S DREAM (Stanley '61). (**SPRING ROMANCE** × **GOLD SOVEREIGN**). A deep golden flower with a gold beard, excellent in shape and strongly sub-

stanced, this has much the same depth and purity of color as GOLD SOVEREIGN. Tailored and excellent.

HIGH HOPES (H. Fail '62). (TOP FLIGHT × BANG). A fine yellow border iris. A self of golden yellow with tight standards and flaring falls. Floriferous and reported to be an unusually good parent.

LINGERING SUNSET (Tompkins '65). (((HERALD ANGEL × FROST AND FLAME) × (MARIE FISCHER × Gaulter 57-44:F. KENT × BALLERINA)) × (ORANGE PARADE))). A fine orange-apricot flower of extra large size and excellent substance. Form is excellent with waved flaring falls and tight standards. A fine performer in the garden, with strong and well-branched stalks.

ACAPULCO (Framke '64). ((SOLAR MAID × FUSILIER) × (PENN CHARTER × FUSILIER)). A very bright yellow self with tight standards and semi-flaring falls. Flowers have good substance. This is said to be an excellent parent; we know it is a good performer for us.

ORANGE JADE (Wise '63). This is one of our favorites since we saw it as a seedling in Paul Cook's garden. In general it is not tall, but is one of the really close approaches to true orange in color. Form and substance are good. One of our personal favorites.

TASTE OF HONEY (Schreiner '66). (OLYMPIC TORCH × HINDU WAND). We do not know where to put this as to color class, but will list it under yellow. A big, well-formed and substanced flower of yellow ground color with darker brown markings, it is a most striking flower in the garden. Floriferous and well-branched, it is both unusual and charming.

WESTERN SUN (F. Harris '64). (SUMMER SUN × GLITTERING GOLD). A really excellent mustard yellow iris with a metallic finish. Substance and form are good. Reported to be an excellent performer in many locations.

CANARY FRILLS (Reckamp '65). (WAXING MOON × ORCHID JEWEL). Clear bright yellow standards are tight. Semiflaring falls are cream with yellow edging. Good substance and very heavily frilled and laced.

COMFORTING THOUGHT (Tompkins '63). (COOL COMFORT × LIMELIGHT). A lemon-yellow flower with lots of lace, tight domed standards, and semi-flaring oval falls. A most charming iris that is an excellent performer and very floriferous.

JABOT (Knopf '64). ((BLOSSOM VALLEY × MISSION TRAILS sib.) × (QUEEN'S LACE)). A big and much ruffled lemon-yellow of excellent substance. Standards are not tight, but the effect is charming and the flower stands up well. We like it.

CRAFTSMAN (Knopf '64). (GOLDEN GARLAND × MISSION TRAILS). The standards are gold and the falls are white heavily bordered with gold. A brilliant flower.

ORANGE PARADE (Hamblen '61). (((PINK TOWER × RADIATION) × (PINK FORMAL)) × (GLITTERING AMBER sib.)). A big, showy, wide petaled and well-formed flower of moderate ruffling. The color was unusually deep and rich this year, as was the case with most of the irises we saw. In our opinion, this is truly a fine iris.

FLAMING STAR (Plough '67). (MARILYN C. × ORANGE PARADE). A very orange color effect with a pink flush at the heart of the flower. It has a bright orange-red beard and is well formed, although the standards were not tightly closed. A brilliant new entry in the orange class.

RADIANT LIGHT (Fay '65). (CHINESE CORAL × PRAIRIE BLAZE). Orange with apricot and gold highlights, this flower has a bright coral beard, is large, well formed, and strongly substanced. Brilliant.

SILENCE (Tompkins '66). (From COMFORTING THOUGHT, FANCIE'S FLIGHT, and CASHMERE LACE breeding). A big and beautifully formed iris of pure clear yellow color, it has a self beard and is nicely fluted. A fine one. A good performer, tall, well branched and floriferous.

Other irises in this color class that did well this year were SUN HAVEN, BELLE HAVEN, GLEAMING GOLD, FRONT PAGE, TULARE, RAINBOW GOLD, TERRY'S CHOICE, PRINCESS ANNE, YELLOW DRESDEN.

RED

CAROLINA RUBY (Powell '64). This superb red iris gave the best performance of any iris in our garden in a poor season. It bloomed and bloomed and even survived a heavy hail that pretty nearly finished our bloom season. Flowers are deep in color, do not sun burn, have superb substance and fine form. Branching is excellent, and this variety does well here in the South where so many reds are not happy. A great iris.

FRONTIER MARSHALL (Schreiner '65). ((TRIM × TALL CHIEF) × (GYPSY JEWELS)). A very, very large red, excellently substanced, nicely formed, on tall and well-branched stalks. Standards are tightly closed and the broad rounded falls flare nicely. This should be a big help in breeding for size and height in the reds.

SCARLET RIBBON (Tompkins '66). (From involved red breeding).

A big and beautiful red of terrific substance and ability to withstand adverse weather conditions. Tall, well-branched, very sturdy stems stand up to high winds. A real good one and very brilliant in effect.

DAZZLING DELIGHT (Schreiner '66). (Involved breeding including MARY ELLEN, JASPER AGATE, BRITTANIA, DEFIANCE, etc.). A big brilliant copper-red from a breeder whose new reds are proving very exciting and of fine quality. Good branching and lots of flair.

ROYAL BLOOD (J. N. Brown '62). (((BANDIT × PACEMAKER) × DEFIANCE) × ((ORELIO × INSPIRATION) × TRIM))). We saw this for the first time in Don Waters' garden. A lovely deep red with tight standards and broad round semiflaring falls, this flower was excellently substanced and carried on tall, well-branched stalks. We found this a most impressive iris and it certainly comes from good breeding lines. Beautiful.

Some of the other fine reds that did well this season were SON OF SATAN, HIGH BARBAREE, CAPTAIN GALLANT, JUNGLE FIRES, STAMPEDE, and DONNYBROOK.

PINK AND APRICOT

PIPE DREAM (Tompkins '66). ((HERALD ANGEL) × (((APPLE VALLEY × (CLARION CALL × Gaulter sdlg: (F. KENT × PALOMINO)))). The last iris to bloom in our garden. How it escaped the hail we'll never know. It is a grand big chamois pink, with broad nicely ruffled petals; its form and substance are excellent. Chet lists this as late and it was certainly late in our garden. More very early and very late varieties are badly needed to extend our bloom season for TBs.

FASHION FLING (Hall '65). (MAY HALL sdlg. × PINK MAGIC). This is a big, graceful, showy flower, bright pink in color and flushed cerise and orchid.

RING BEARER (P. Cook '67, by Emma Cook). (Jonas 1112-1 × Galyon P.Y. "Pinkie"). An exquisite pink, medium tall bearded in classification. This was beautiful in its home garden. Floriferous and an excellent performer.

COMPLIMENT (E. Cook '62). ((Sdlg. × PARADISE PINK) × (JUNE MEREDITH)). A beautiful pink on the rose-pink side. Form is excellent and substance very fine; though color and ruffling give an appearance of fragility this iris can take it. Coral beard.

CAROLINA PEACH (Powell '64). (MIDWEST GEM × BALLERINA) A very ruffled and delicate pink that has amazing substance and resistance to weather. Delicate and fragile in appearance, it takes wind and sun and rain amazingly well. This iris breeds well for lace and purity of color. It seems to do well almost everywhere.

HIGH ESTEEM (Tompkins '66). (HIGH NOTE × APPLE VALLEY). Big and well-formed, this deep pink flower has fine substance and sports a brilliant rose-coral beard. Tall and well branched.

IRISH LULLABY (Moldovan '65). (Court Ballet × Sib.). A heavily laced pink with a tangerine beard. The flowers are large, finely formed and of heavy substance. A fine one.

MILADY (Moldovan '66). (Fay pink sdlg. × COURT BALLET sib.). A nicely formed flower. The standards are domed, falls broad and semiflaring, and it has lots of ruffling. The color is a deep pure pink, with a tangerine beard. It does not seem to be as vigorous a performer here as IRISH LULLABY.

GENTLE PERSUASION (Tompkins '65). (((Pink sdlg. 55-193 × LUTE SONG) × (SUNDAY SILK)) × (TANTALON)). A large, stylishly formed and much ruffled rose-pink with a touch of apricot at the haft and a brilliant orange beard. It has tight globular standards and broad flaring falls. Branching is good and the substance heavy. This is different and very attractive.

Other good pink and apricot varieties included CAMEO CORAL, BREATHLESS, MAY HALL, BALLERINA, POINT LACE, COCKLE SHELLS, HERMOSA HAVEN, APPLE VALLEY, PINK TORCH, PINK PLUME, HAPPY BIRTHDAY, APRICOT LUSTER, ESTHER FAY, COURT BALLET, DAWN CREST and FANCY FROSTING.

ORCHID, LILAC AND LIGHT VIOLET

STERLING SILVER (Moldovan '63). (REGAL RUFFLING × DR. WANLASS). A medium light violet that is as close an approach as we have seen to perfection of form in a flower. This is truly a great iris. Superb.

SHADOW WALTZ (Tompkins '62). (BERTA B. × CLIFFS OF DOVER) × (SPRING FESTIVAL). A stylish, airy orchid flower with beautiful form and ruffling and with the elegance and grace of a dancer. A particular favorite of ours and a most reliable performer.

MAUVE MAGIC (E. Smith '63). (LIMELIGHT × HAPPY BIRTHDAY). A well-formed and much laced mauve-pink with a tangerine beard. This might equally well be listed under pinks.

BLAZING VIOLET (Carlson '61). ((VATICAN PURPLE) × (BLUE GLOW × unknown)). A deep violet-blue self with a darker self beard that outdid itself this year. One of the outstanding performers of the season in several gardens. A grand performer and a most vigorous grower.

IMPERIAL LILAC (Schreiner '63). (AMETHYST FLAME × LAVISH LADY) A pale lilac self with a yellow beard. Finely substanced and with flaring falls.

MULBERRY WINE (Moldovan '66). (REGAL RUFFLING × ORCHID JEWEL). A mulberry-violet blend of excellent form and ruffling. It is beautiful.

Other good orchid and violet irises we saw were REGAL RUFFLING, DAVE'S ORCHID, FIRST VIOLET, HOPE DIVINE, AMETHYST FLAME, DESERT THISTLE, BIG GAME, LOVELY LETTY, LAVISH LADY, ROYAL ANTHEM, and VIOLET HARMONY.

DEEP VIOLET AND BLACK

ROYAL TOUCH (Schreiner '67). ((J-219-A (BLUE ENSIGN x (THE ADMIRAL x GREAT LAKES)) x Randolph 53-244-2 ((PIERRE MENARD x (DISTANCE x SYLVIA MURRAY)). A deep deep pansy-violet, excellently formed and very firmly substanced, it has waved and very flaring falls and a nearly self blue-violet beard. This is a most exciting addition to the deep purples. We think it as outstanding in its time as PURPLE HAVEN and VATICAN PURPLE were in theirs.

SABLE ROBE (Paul Cook by Emma Cook '67). (Sdlg. 3161 from Paul Cook's line of black breeding). A very deep violet (black) of great depth of color and richness of tone and very velvety in texture. The flowers are beautifully formed and strongly substanced. This is a worthy continuation in the superb line of Cook blacks and one we very much want for our own garden.

RUMBLING THUNDER (Tompkins '62). (BLUE SAPPHIRE x DOWN BEAT) x (REAL GLORY). A deep violet, almost black, self of excellent flaring form. The large flowers have very very fine substance and the stalks are tall and well branched. This iris is a good performer.

CONGO SONG (Christensen '63). (STORM WARNING x SABLE NIGHT). A big deep violet of excellent form, with tight standards and flaring falls having a lighter violet border and sporting a dark violet beard. This is a most floriferous variety and a really fine performer.

UXEDO (Schreiner '65). (A LICORICE STICK sdlg.) A big, excellently substanced black flower with a lot of velvet. Listed as a blue-black, it gives the effect of almost dead black. Its standards are tight and falls are semi-flaring and the petals are nicely waved.

TAR HEEL (Powell '64). (TOP HAT x BLACK TAFFETA). A fine black, excellent in every respect, and one dark one that performs well here in the South. Will take hot sun and bad weather, and is a most excellent parent, giving unusually fine seedlings.

THUNDER ROAD (Tompkins '64). (MOUNTAIN MUSIC x BRIGADOON) x (TWILIGHT ZONE). This could almost be listed as a black blend, a mixture of deep blue-violets; it is close to black in effect. The flowers are unusually large and excellently formed, with a blue-purple beard. Substance and branching are good.

A few of the other very good blacks and near-blacks this season were PURPLE HAVEN, LICORICE STICK, BLACK SWAN, DARK BOATMAN, BLACK NITIE, and DARK FURY.

BLUE

MUSIC MAKER (Waters '63). (MUTED MUSIC x REGINA MARIA). One of the very bluest of the light sky blues, there is no white at the beard, and the flowers are as close to perfection in form and substance as one could hope for. Truly outstanding in every respect.

TRITON (Juhlander '63). (HARBOR BLUE x WHOLE CLOTH). A fine medium blue self with a lemon-yellow beard. The petals are wide, the falls

flare, and standards are closed. Both are nicely ruffled. This should be a real good breeder.

TIDELANDS (Buttrick '62). (**GALILEE**) × (**BLUEBIRD BLUE** × sdlg. 54-1A). A medium dark blue that impresses with its blueness of tone as does **ALLEGIANCE** in the very dark blues. We found this iris most exciting because of its purity of color and beauty of form. In our opinion it is worthy of a great deal more attention than it has received to date. An outstanding achievement in blue breeding.

CRYSTAL RIVER (Plough '64). (**GALILEE** × **WHIR OF LACE**). An excellent light blue flower with a yellow beard. It is nicely formed, strongly substanced, and is fertile both ways.

DEEP SPACE (Tompkins '61). ((**CONSOLATION** × **COLUMBIA**) × (**DOWN BEAT** × **MOUNTAIN MUSIC**)) × (**DARK BOATMAN**). A very deep blue and one that is truly on the blue side and very clean as to color. We have found it to be a most excellent parent.

CRYSTAL BLUE (Schreiner '64). (**GALILEE** × sdlg.) A very nice light blue, very blue in effect and excellent in form and substance.

FLEET ADMIRAL (Tompkins '64). (**MOUNTAIN MUSIC** × **FLAG SHIP**). Very big flowers that are very ruffled and widely flared, with tight standards. Very good.

DIPLOMAT (Tompkins '66). **SALEM** × **MOUNTAIN MUSIC**). A finely formed and broad petaled deep blue flower with a bright blue beard. Flowers are very well substanced and carried on tall, strong, nicely branched stems.

ALLEGIANCE (P. Cook '58). (**DARK BOATMAN**) × ((**DISTANCE** × blue sdlg.) × (**PIERRE MENARD**)). Far from new, this superb dark blue is still, in our opinion, the bluest of the very dark ones. One of our all-time favorites, it is also giving us some nice seedlings.

WENATCHEE SKIES (Noyd '63). **SAPPHIRE SEA** × **SOUTH PACIFIC**). A big, truly blue, medium blue flower that has fine form, substance and branching.

CAROLINA SKY (Powell '65). (**REGINA MARIA** × **DANCING DEB**). A big, well-formed, medium blue of fine substance form and branching. This is not only very blue and very beautiful, but is also a grand performer in the garden. Excellent in every way.

Among the other good blues that we saw were **CONCORD RIVER**, **PIERRE MENARD**, **SKYWATCH**, **BLUE REJOICE**, **CAROLINA ROYAL**, **MOUNTAIN MUSIC**, **FLAGSHIP**, **BLUE BARON**, **CROSS COUNTRY**, **DEMETRIA**, **ELLEN MANOR**, **BLUE BALLAD**, **HIGH ABOVE**, **PRINCE INDIGO**, and **INDIGLOW**.

BROWN AND TAN

GINGERSNAP (Schreiner '65). (**BRASS ACCENTS** × **DARK CHOCOLATE**). This is the best named brown iris that we have ever seen. A rich brown self with a giner-brown beard, this is an excellently formed iris, charming in every respect, and has been a good performer wherever we have seen it since the year it was first introduced.

ACORN (L. Hooker '66). (**TOAST & HONEY** × **WAXING MOON**). A brown self that we want to see more of. Certainly a different cross for a brown and may be of real use in further development of this color class. This is one we want.

CHOCOLETTO (C. Deru '59). (**GRAND CANYON** × **TOBACCO ROAD**). A border iris 22". A nice brown flower with a dash of gold. The form is good and the color effect is definitely brown. We liked this one.

TAFFY TWIST (Rowe '66). (FLUTED HAVEN × JADE QUEEN). The official description is a barium yellow with green gold at the haft, but to us it seemed definitely tan and gold in effect with a greenish gold at the haft. We have an excellent color slide of this which confirms my notes. Anyhow, it is a most pleasing iris with fine form, excellent substance, lots of nice ruffling, and good branching for a first year plant, even if this has been a year of poor branching. It seems to us that this is an iris well worth having.

RUSTICANA (Schreiner '61). An excellent brown with a deep gold beard. Standards are tight and falls broad flaring, and nicely ruffled. Branching was good.

BICOLORS AND BLENDS

DIPLOMACY (Keppel '66). (Rococo × WHOLE CLOTH). A very distinctive blue bitone with pale violet-blue standards and medium blue-violet falls. The form is good, petals are moderately waved and the falls are semiflaring. A fine iris and different. We crossed this with a blue bitone seedling of our own of a deeper coloring, also from a WHOLE CLOTH cross, and hope for big things.

RAINBOW VALLEY (Plough '65). ((BUTTERSCOTCH KISS × QUEEN'S LACE) × (RAINBOW GOLD sib.)). A pleasing blend with closed buffy lavender standards and lavender falls bordered buff with a lightening about the beard. Nicely ruffled, well substanced and branched, this is an excellent flower.

AMIGOS GUITAR (Plough '64). (KACHINA DOLL × MELODRAMAS). Standards of butterscotch-tan with some violet and deep reddish violet falls, on a nicely formed flower, make for vividness and brilliant contrast.

FIRE CHIEF (Galyon '59). (GYPSY × LOUISE BLAKE). Perhaps the most brilliant of all the variegatas, with yellow standards and mahogany-red falls. This is an excellent iris.

RADIANT DAWN (Emma Cook '67). (Sdlg. 8459 × PRETTY CAROL). Buffy yellow standards with flaring phlox-pink falls. A truly different iris and very charming, this should be a most exciting parent.

PLICATA

HALLELUJAH TRAIL (Tompkins '66). ((COPPER HALO × RIMFIRE) × (RIMFIRE × FULL VOLTAGE)). A white and copper plicata with a nice gold beard. Standards are tight and the falls are broad and semiflaring. Flowers are of good size and the branching is good on tall stalks.

LUSTY SONG (Gibson '66). (A WILD GINGER seedling). A big burgundy and white placata with almost solid red standards and white falls with a narrow burgundy border. Flowers are big and well formed, with a lot of flare.

RIBBON ROUND (Tompkins '63). (CROWN POINT × CAROLINE JANE). A superb medium blue and white plicata. The form is close to perfection, coloring is clear and clean, petals are broad and of fine substance. An all-time great.

GRAND SPECTATOR (Heney '65). ((RODEO) × (TOBASCO × plicata sdlg.)). A very large and excellently formed and substanced plicata that is most exciting. The tight standards are washed with gold; the falls show cinnamon markings on a white ground. The beard is gold in color. An exciting new one.

TEA APRON (H. Sass '61). (Sass sdlg. × AZURITE). A beautiful white-ground plicata with a light bordering of blue-violet. This is a good flower and charming in effect.

JET FIRE (Tompkins '64). ((ROSY VEIL x STARKIST) x (TROPICANA)) x (RIMFIRE). A big, brilliant red and white plicata that has been both a fine flower and a most reliable performer in our garden. Brilliant.

A FEW PROMISING SEEDLINGS

A poor season in general and the crop of seedlings was less than normal, but a few nice ones may well be noted.

LEWIS 661 was a big, well-formed white from blue breeding that rates further observation.

POWELL 66-38 (FOAMING SEAS x FULL VOLTAGE). One of two very fine violet and white plicatas. Big, well substanced and nicely formed. This drew a real crowd at the North Carolina Iris Society meeting.

POWELL 66-92 (BAZAAR x FULL CIRCLE). Very dark red on white plicata. Excellent.

Claude O'Brien had a row of blacks that made us think of the Paul Cook gardens, at least six that rate real consideration. We wish Claude would designate one or two for more definite comment.

POWELL 67-55 (Parentage not completely known). A different flower with pale pink standards and flaring medium red falls.

POWELL (BLACK SWAN x TAR HEEL). Here is a fine black one from Loleta's garden. We liked it in every way.

Lewis ((64-11A: L 641 x BLUE HAWAII) x VICTORIA). Light blue standards are tightly held, wide flaring much deeper blue falls. We think it the best blue bicolor we have seen.

DWARFS, INTERMEDIATES, ETC.

We arrived at the Moldovan Gardens at a time we thought would be in the midst of tall bearded bloom, only to find a mere half dozen TBs blooming, but the dwarfs and intermediates were going strong. We will comment on the dwarf seedlings along with the general comments on dwarfs.

COOK 3762. A fine one with creamy yellow standards and flaring blue falls. Substance and form were excellent.

TIMMIE Too (M. Wolff '62). A most excellent deep violet that performs well here where dwarfs are not generally too happy. This is a sib to DEBBIE ANN, but oh, so different.

GLEAMING GOLD (E. Roberts '65). A finely formed and cleanly colored gold intermediate. Very deep and rich color that reminded us of Agnes Whiting's superb GOLD SOVEREIGN.

PEPITA (Schreiner '65). (FAIRY FLAX x TINKERBELL). A really nice flax blue self dwarf with a deep blue blaze on the falls.

LILLI-GREEN (Welch '59). A different greenish dwarf. Most unusual. See it before you buy it, for you will fall hard or not at all.

LEMON SPOT (Willott '65). A beautiful dwarf with a large lemon-yellow spot on the creamy falls. Tight standards and flaring falls. We like it.

SPRING FERN (Roberts '64). (NEW SNOW x Welch H503). A really nice white with a green blaze around the beard. This is quite striking.

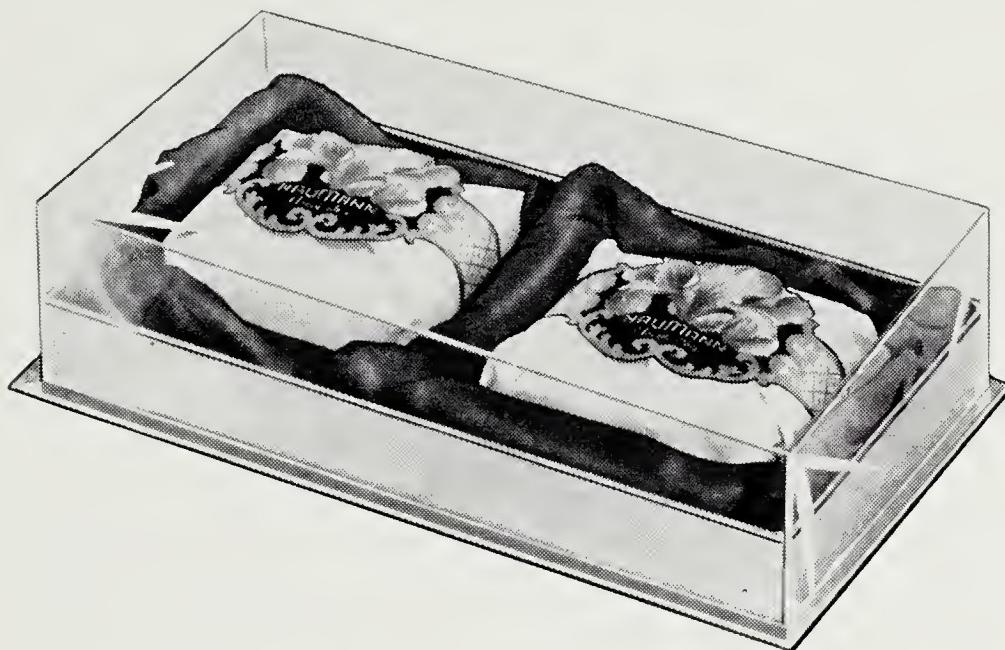
MOLDOVAN 367 A. A beautiful light turquoise-blue dwarf with a green blaze on the falls.

MOLDOVAN 2-67-G. An exciting little yellow flower with a really blue beard.

DEBBIE ANN (Wolff '62). (PERFECT LOVE x BLACK FOREST). 16". A cool white with a slight tinge of violet. Excellent form and substance.

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Exhibitions Committee Report, 1967

WILLIAM T. BLEDSOE, *Chairman*

The 1967 iris bloom season was consistently inconsistent throughout most of the nation—a condition reflected in the number and distribution of show reports. An unprecedently early bloom in the Southeast caused consternation and conflict in judges' dates as shows were "moved up", and resulted ultimately in cancellation of many exhibitions in that normally productive area. Late freezes were the culprits that ruined many shows in other parts. But on the West Coast varying weather made possible shows from November 1966 until early July 1967. In spite of the whims of the elements, it was a good year overall.

The all-time great of the show benches, VIOLET HARMONY, made a strong comeback from last year's lesser showing to gain a first-place tie with FLUTED HAVEN, INDIGLOW, and CELESTIAL SNOW for the NELSON AWARD (given to the iris selected the greatest number of times as Best of Show). Each was chosen for that honor in four shows.

One hundred four show reports have been received at the time this is being written (August 3), which compares quite favorably with 1966 when 106 reports were on hand at the same time. A total of 472 individual AIS certificates were issued. Names of exhibitors winning top awards are given in another part of this report.

The count of shows reported by regions is, as follows:

<i>Region</i>	<i>Shows</i>	<i>Region</i>	<i>Shows</i>
1	4	13	8
2	2	14	9
3	2	15	18
4	0	16	0
5	2	17	5
6	12	18	10
7	2	19	1
8	3	20	1
9	1	21	2
10	1	22	8
11	2	23	3
12	3	24	5
TOTAL			104

Some regions are more show-conscious than are others and, therefore, have many shows. Region 15 has August Phillips, a capable and active regional exhibition chairman, who is strongly supported by the energetic RVP, Mrs. Barbara Serdynski. This "team" promotes iris shows effectively in their region, and then makes certain a report is mailed for each. The results speak for themselves.

Specialty shows continue to be popular. Exhibitions for remontants were

held in November 1966 by the San Diego-Imperial Counties Iris Society and in January 1967 by the Southern California Iris Society. Cascade Wonderlands Iris Society, Redding, California, staged an aril show, as did the Los Angeles Area of Aril Society International, and the Albuquerque, New Mexico, aril group. The Society for Louisiana Irises held their annual show at LaFayette, Louisiana. The Dwarf Iris Society held their first AIS-approved show at Westfield, Indiana. (We hope they make it an annual event.)

Judges are becoming more fully aware of specialty entries in regular shows. The most worthy seedling in the Escondido, California, show was a California native hybrid. The Best of Show at the Sacramento, California, show was pseudacorus PRIMROSE; at Lubbock, Texas, the spuria, GOLDEN LADY; at Arcadia, California, the spuria, DUTCH DEFIANCE, shared with a tall bearded; and at Tulsa, Oklahoma, the Louisiana, RUTH ANN.

More and more clubs are having multiple shows. The San Diego, California, group held three shows, while at Los Angeles the Southern California Iris Society held two, as did Cascade Wonderland Iris Society at Redding, California. Wichita, Kansas, Area Society staged an early show for the arils and the medians, and a latter one for the TBs and others. This club seems to have found a workable solution to the problem of having more than one show a year. They pick an able-bodied man as General Chairman and give him both shows (this year the chairman was George Torrey, last year Jim Fry). San Diego, California, has used the same system, having placed on Paul Runde the chairmanship for two shows.

Minneapolis (Twin City Iris Society) again led all others in attendance for a two-day show—and this year it was held in spite of a late freeze that would have discouraged a less determined chairman than Mrs. Greta Kessenich. On the morning after the freeze, only scant days from the show date, she announced grimly and emphatically: "Blooms or not—there will be a show!" Volunteer workers scoured the area for bloomstalks. There was a show, with 900 entries, and 17,000 spectators.

Another "first" was scored by the San Diego-Imperial County Iris Society when they held a summer show as a part of the Southern California Exposition in Del Mar, June 23 through July 4, 1967. The show rules required fresh specimens every other day during the twelve days of the Exposition, and prohibited judging of a specimen more than once. This amounted to a series of six consecutive shows, and kept Show Chairman, Bill Gunther, and Senior AIS Judge, Mrs. Archie Owens, operating at full speed to insure that "the show must go on!" Attendance for the twelve days topped 300,000.

Many shows boasted of exceptional educational exhibits. Perhaps the most distinctive one was reported by the North Alabama Iris Society in its exhibition at Florence, Alabama. Here the entire cycle of hybridizing, from the cross-pollination of a full-size bloom by the human hand to the planting of the seeds, was depicted in ceramics by J. M. (Skip) Ross of Huntsville, Alabama.

Again there were shows which were not reported. This negligence by show officials deprives winning exhibitors of AIS awards which they have merited. It also prevents including names of winners in the AIS Bulletin summary, so that credit may be given where due. Failure to report is a sure-fire method of drying up the enthusiasm of exhibitors for future shows. Please, show chairmen, do send in your show reports by August 1 each year.

AWARD WINNERS, AIS SHOWS—1967

<i>Place of Show</i>	<i>Silver Certificate</i>	<i>Bronze Certificate</i>	<i>Best of Show</i>	<i>Variety</i>	<i>Exhibitor</i>
ALABAMA					
Birmingham	The E. P. Miles	Mrs. O. T. Strickland	CELESTIAL SNOW		Mrs. C. J. Finchum
Birmingham	The E. P. Miles	Mrs. Lonne Hix	INDIGLOW		Mrs. W. L. Keaton
Florence	Mrs. B. W. Branum	Rachel Burleson	APRICOT HONEY		Mrs. B. W. Branum
ARIZONA					
Chandler	Mrs. Donald Reed	C. S. Purtymum, Jr.	PACIFIC HARMONY		Mrs. Donald Reed
Phoenix	Mrs. Paul Orick	Mrs. J. M. Jackson	MARY TODD		Mrs. Paul Orick
Tucson	Mrs. B. T. Whitaker	Mrs. Harold Powell	FLUTED HAVEN		Mrs. B. T. Whitaker
Tucson	Mrs. B. T. Whitaker		CLEAN SWEEP		Mrs. J. M. Jackson
ARKANSAS					
Hot Springs	Lorraine Van Hapert	Nola Smitherman	DREAM SPUN		Hoyt Smith
Little Rock	The Leo Whittens	Royce Lowe	WABASH		Vera Ray
CALIFORNIA					
Arcadia	Jose Rivera	Maxine Gould	WESTERN HILLS		Doris Foster
Arcadia	Barbara Serdynski	Tom & Wiloh Wilkes	IMAN SALAH		Barbara Serdynski
Arcadia	Grace Kallam	Lucienne Michelin	LOLITHA MALLETE		Barbara Serdynski
Bakersfield	Vera Simmons	Wilber Goodrich	DUTCH DEFIANCE		Robert Hubley
Bakersfield	Alice Mueh	Lewis Henderson	ROCOCO		Irene Poston
Carlsbad	Neville Stephens	Mrs. P. V. Cooper	VIOLET HARMONY		Lewis Henderson
Del Mar	Bill Gunther	Thelma Carrington	EDENITE		Neville Stephens
Escondido	Margaret Otto	Lois Weaver	LILAC CHAMPAGNE		Lois Weaver
Los Angeles	Daryl Sellers	Donald Sellers	MIDNIGHT WALTZ		Donald Sellers
Modesto	Dan Miller	Elsie M. Nicholson	RIBBON ROUND		Dan Miller
Mt. Shasta	Julia Abramson	Mrs. Paul Decker	SYMPHONY		Mrs. Claude Bolan
Oakland	Tom Foster	Edwynn Jolly	COPPEROPOLIS		Tom Foster
Redding	Leo Clark	Edna Bryceson			
Redding	Edna Bryceson	Andrew Houck	ORANGE BANNER		Edna Bryceson

<i>Place of Show</i>	<i>Silver Certificate</i>	<i>Bronze Certificate</i>	<i>Best of Show</i>	<i>Variety</i>	<i>Exhibitor</i>
Redlands	Claude Thompson, Jr.	The Bill Rogers	SYMPHONY	The Bill Rogers	
Riverside	Celeste Hammer	W. D. Gardner	FLUTED HAVEN	Louise Ashcroft	
Sacramento	Leo T. Clark	Eva B. Ford	PSEUDACOROUS PRIMROSE	Lois Carmahan	
San Diego	Thehma Carrington	Bill Gunther	WINTER GOLD	R. P. Hubley	
San Diego	Mrs. Raymond Otto		FLUTED HAVEN	The Bernard Hamners	
San Jose	Frank Scott		TRUDY	Frank Scott	
Santa Barbara	Elizabeth Brett		EDENITE	Elizabeth Brett	
<i>CONNECTICUT</i>					
Milford	Fred Gadd	Fred Jacobs	FLUTED HAVEN	Fred Jacobs	
<i>IDAHO</i>					
Boise	Ruby Lindsey	Mrs. Huey Reed	COUNTRY CREAM	Ruby Lindsey	
Midvale	Mrs. Earl Craig	Nell Thomason	GRACIE PFOST	Nell Thomason	
<i>ILLINOIS</i>					
Hillside	Sherman Kindell	D. S. Varner	DISTANT HILLS	James E. Marsh	
<i>INDIANA</i>					
Westfield	The Tony Willotts	Helen Proctor	GREEN SPOT	Helen Proctor	
<i>IOWA</i>					
Davenport	Frank Foley	Ford Grant	STEPPING OUT	Ford Grant	
<i>KANSAS</i>					
Garden City	Wilma Trimpia	Marilyne VenJohn	LILAC CHAMPAGNE	Wilma Trimpia	
Hutchinson	Eula Stout	Betty Hill	COLOR CARNIVAL	Kay Rasmussen	
Parsons	William Chapman	Mrs. G. C. Young	BLUE SAPPHIRE	William Chapman	
Wichita	Mrs. Elmis Standard	Carol Ramsey	LITTLE REB	Mrs. George Torrey	
Wichita	Mrs. Elmis Standard	Mrs. George Torrey	MEADOWLARK	Mrs. George Torrey	
<i>KENTUCKY</i>					
Lexington	H. C. Mohr	Henry Rabe	TRANQUILITY	Frank Tice	
Louisville	Mrs. C. D. Overholser	Mrs. D. E. Parker	ALLAGLOW	Mrs. C. D. Overholser	
<i>LOUISIANA</i>					
LaFayette	C. W. Arny	Marvin Granger	QUEEN O' QUEENS	G. W. Holleyman	
<i>MAINE</i>					
Auburn	The Mallicones	The Russell Moors	LEADING LADY	The Russell Moors	

<i>Place of Show</i>	<i>Silver Certificate</i>	<i>Bronze Certificate</i>	<i>Best of Show</i>	<i>Variety</i>	<i>Exhibitor</i>
MASSACHUSETTS					
Peabody	Mrs. I. W. Fraim	Mrs. B. H. Rice	Mrs. I. W. Fraim		
Worcester	Mrs. F. W. Warburton	C. J. Ulm	Mrs. F. C. Nason		
MICHIGAN					
Fairview	Mabel Lawe	Gladys Goodrow	Mabel Lawe		
Flint	Mrs. Aven Barr	Mrs. Paul Speckman	Mrs. Aven Barr		
Kalamazoo	Onnilee Katz	Carl & Mabel Bacon	Onnilee Katz		
Lansing	Mrs. H. E. Cope	Beulah Robinson	Beulah Robinson		
Livonia	William Simon	Mrs. R. H. Webber	William Simon		
MINNESOTA					
Bagley	Beatrice Welte	Mrs. Ben Scholl	Lulu Skare		
	Greta Kessenich	G. B. Gable	The Stan Rudser		
Minneapolis					
MISSISSIPPI					
Jackson	Mrs. I. B. Chapman	Mrs. J. M. Lack	Mrs. I. B. Chapman		
Jackson	Mrs. Warren Greff, Jr.	Mrs. F. C. McCann	Mrs. F. C. McCann		
MISSOURI					
Farmington	Mrs. I. B. Chapman	Mrs. J. M. Lack	Mrs. I. B. Chapman		
Joplin	Mrs. Warren Greff, Jr.	Mrs. F. C. McCann	Mrs. F. C. McCann		
Kansas City					
St. Louis					
Washington					
NEBRASKA					
Crete	Mrs. Anton Kupka	Mrs. Edward Hesch	Mrs. Frank Parks		
NEVADA					
Henderson	Jean Hardy	Barbara Fry	Barbara Fry		
Las Vegas	Mrs. Mark Condo	Sara Condo	Mrs. Mark Condo		
NEW JERSEY					
New Brunswick	Franklin Carr	Van Ann Iris Gardens	A. Van Riper		
NEW MEXICO					
Albuquerque	Mrs. B. Lowenstein	Mrs. B. O. Barnes	Mrs. B. O. Barnes		
Albuquerque	Mrs. B. O. Barnes	Mrs. B. Lowenstein	Mrs. B. Lowenstein		
Hobbs	Mrs. T. E. Bertram	Mrs. H. N. Toland	Mrs. H. N. Toland		

<i>Place of Show</i>	<i>Silver Certificate</i>	<i>Bronze Certificate</i>	<i>Best of Show</i>	<i>Exhibitor</i>
<i>Variety</i>			<i>Variety</i>	
NEW YORK				
Rochester	A. F. de Groat	Jason Drought		
Oyster Bay, L.I.	Harry Kuesel	Frank Jones		
OHIO				
Akron	Mrs. Frank Bourne	Dalton Rawdon	BLACK CHARM	Myron Beard
Cleveland	Joseph Sikora	D. O. Rawdon	STEPPING OUT	John D. Rusk III
Dayton	David Rawlins	Mrs. Harry Wilkie	VIOLET HARMONY	Horace Wright
Mansfield	O. J. Fritz	Dale Satterwhite	FAIR IMAGE	E. M. Siegling
Springfield	Mrs. J. J. Cronin	Mrs. Roger Peck	BLUE PEARL	
Springfield	Robert Mason	Lee Eberhardt	CELESTIAL SNOW	Robert Mason
OKLAHOMA				
Enid	W. G. Frass	Evelyn Wilson	DENVER MINT	W. G. Frass
Oklahoma City	Bill Frass	Loretta Aaron	RIPPLING WATERS	Bill Frass
Quartz Mtn. Lodge	Mrs. John Hayes	Mrs. George Beavers	PACIFIC PANORAMA	Mrs. John Hayes
Shattuck	Bill Frass	Florence Oliver	RIPPLING WATERS	Bill Frass
Stillwater	Mrs. Burl Austin	J. W. Humphrey	BUTTERSCOTCH KISS	J. W. Humphrey
Tulsa	Eleanor Hill	C. J. Lack	RUTH ANN	Eleanor Hill
OREGON				
Portland	Dwight Booth	John Dorr	ROCOCO	Thomas Heston
PENNSYLVANIA				
Newton Square	Franklin Carr	W. T. Hirsch	INDIGLOW	Paul R. Smith
Pittsburgh	Mrs. J. Dougherty	Mrs. Frank Proskey	VIOLET HARMONY	Mrs. Frank Proskey
SOUTH CAROLINA				
Cayce	The Laughinghouses	E. F. Teague	SIVA SIVA	The Laughinghouses
Rock Hill	Mrs. R. M. Roddey	Mrs. W. D. Collins	AMETHYST FLAME	Sharon Roddey
TEXAS				
Arlington	Myron Guither	C. J. Andrews	PIERRE MENARD	Myron Guither
El Paso	The John Sextons	The Alvarados	CAMELOT ROSE	The Alvarados
Fort Worth	The L.W.V. Whites	Mrs. R. C. Blevins	GOLDEN MINK	Mrs. Lloyd Gilley
Lubbock	Mrs. Charles Benson	Mrs. Harley King	GOLDEN LADY	Mrs. Charles Benson
New Braunfels	Walter Sippel, Jr.	Mrs. H. G. Borne	JET BLACK	Jack Williams

*Place of Show**Silver Certificate**Bronze Certificate**Best of Show**Exhibitor**UTAH*Logan
Ogden
Salt Lake*WISCONSIN*Selma Jensen
Ellis Wilson
Ed Jaeger*WASHINGTON*Entiat
Kennewick
Richland
Spokane
Opportunity
Sunnyside
Walla Walla

Milwaukee*UTAH*Mrs. H. C. Hansen
Ben Stanger
The Ellis Wilsons*CELESTIAL SNOW*DANCER'S VEIL
TRITON
CELESTIAL SNOW

Wild GINGER
RIMFIRE
RIPPLING WATERS
WHOLE CLOTH
PIETY
ELEANOR'S PRIDE
BLUE BARON
CELESTIAL SNOW*Place of Show**Exhibition Certificate**Commercial or Educational Exhibit*Mrs. Bert Warner
Mrs. J. H. Kohl
Mrs. Keith Holman
Mrs. Faye Katon
Dorothy Guild
Mrs. L. H. McBride
Mrs. B. M. Van Donge, Jr.
Frances Perkins*UTAH VALLEY*

Mrs. E. G. Miller

*Place of Show**Exhibition Certificate**Artistic Sweepstakes*

Mrs. E. G. Miller

*Place of Show**Exhibition Certificate**Best Arrangement*

Mrs. W. P. Sitz

Artistic Sweepstakes

Mrs. E. M. Irwin

Commercial or Educational Exhibit

Mr. and Mrs. Richard Mansfield-Jones

Best Arrangement

Mrs. E. G. Brown

Artistic Sweepstakes

Mrs. J. A. Cogburn

Commercial or Educational Exhibit

Mrs. Charles Van Bibber

Best Arrangement

J. M. Ross

Artistic Sweepstakes

Dr. Charles S. Purtymun, Jr.

Commercial or Educational Exhibit

Mrs. Donald Reed

Artistic Sweepstakes

Mrs. M. A. Greene

Commercial or Educational Exhibit

J. M. Jackson

Artistic Sweepstakes

Ron MacBain

Place of Show
ARKANSAS
Hot Springs
Little Rock

*Commercial or
Educational Exhibit*

Exhibition Certificate
*Best
Arrangement*

*Artistic
Sweepstakes*

Mrs. Jesse Cox
W-67-A, The Leo Whittens

CALIFORNIA
Arcadia

66-36-6, Doris Foster
14 M, Polly Anderson
64-3-4, Doris Foster
No Number, John Holden
No Number, Wiloh Wilkes
No Number, Wiloh Wilkes
52-60, George Stambach
65-12-7, Doris Foster
64-14-7, Doris Foster
HA 22A, John Holden

Arcadia

59-1-c, Grace Kallam
D-5-56, Marion Walker
59-16, Grace Kallam
IPM-3, Polly Anderson
T64-21, C. S. Terrell

Arcadia

65 MXSM, Mrs. P. V. Cooper
No Number, Lois Weaver
W-B5-66, Daryl Sellers
T1948-A, Ben Hager
18-64-1, K. Decker
63-73C, Frank Hutchings
64-9, Walter Luihn

Bakersfield
Bakersfield
Carlsbad
Dcl Mar
Escondido
Los Angeles
Modesto
Mt. Shasta
Oakland
Redding

71 Redding

71 Redding
Cullis Group
The Arthur Gaines
Bushey's Gardens
Andrew Houck
Grace Morissette
Mrs. Paul Decker
Glenn Corlew
Georgia Maxim
Faye Nesbit
Andrew Houck
Cullis Group
The Arthur Gaines
Bushey's Gardens
Andrew Houck
Ermah Ballard
Grace Morissette
Mrs. Paul Decker
Glenn Corlew
Mrs. Paul Maxim

<i>Place of Show</i>	<i>Commercial or Educational Exhibit</i>	<i>Exhibition Certificate</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
Redlands		B-1L-63-L-8-A		W. N. Vroman
Riverside		Mark Rogers		
Sacramento	65-5B, Harry Tate	65-79X80, Bernard Hammer	Mrs. Michael Thomas	Mrs. Michael Thomas
San Diego	TAR RIVER,	62-C-21A, Leo Clark	Bill Gunther	Bill Gunther
San Diego	Thelma Carrington	Thelma Carrington		
San Diego	No Number, Bernard Hammer	Mrs. N. R. Carrington	Maisie Dodge	Maisie Dodge
	65-1X152, Mrs. Bernard Hammer	Eleanor McCown		
		Ray Hiser		
		Pilley's Gardens		
		Van Dusen Gardens		
San Jose	JUNIOR PROM, Joe Ghio	63-3, D. L. Peterson	Mrs. G. H. Fitzsimmons	Mrs. G. H. Fitzsimmons
COLORADO				
Denver			Mrs. J. V. Carroll	
CONNECTICUT				
Milford	23-B-46, Bill Thomson		Mrs. V. H. Brockway	
IDAHO				
Boise	67-C8, Mrs. Mel Suiter		Mrs. E. E. Rutledge	
Midvale			Alta Long	
ILLINOIS				
Hillside	460, D. S. Varner		Lillian Dushek	Lillian Dushek
	796, D. S. Varner			
	67-5, Henry Danielson			
INDIANA				
Westfield	67R29, Earl Roberts			
	H2, Frank Williams			
	64-97B, Emma Hobbs			
	P528, Walter Welch			
	67-R30, Earl Roberts			
	67R29, Earl Roberts			

Place of Show

*Commercial or
Educational Exhibit*

*Best
Arrangement*

*Artistic
Sweepstakes*

<i>IOWA</i>	<i>Exhibition Certificate</i>	<i>Commercial or Educational Exhibit</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
Davenport			Mrs. Ralph Kay	
KANSAS				
Garden City	508, Floyd Jones	Wilma Trimpka		
Hutchinson	64-5, Floyd Jones	Elizabeth Kuykendall		
Parsons		Mrs. Wm. Chapman		
Wichita	41-62, Mildred Brizendine	Laura Romick	Laura Romick	
	4DA55E7, Leda Christleib			
	134-67B, Helen Reynolds			
	354-66A, Helen Reynolds			
KENTUCKY				
Lexington	63-5-18, Mrs. J. W. Alexander	Mrs. J. B. Maggard	Mrs. Andrew Eastman	
Louisville	2E465, James Niehoff	Mrs. Charles Kinberger	Mrs. Howard Hummler	
LOUISIANA				
LaFayette	RUUZITA, John Nugebauer	Mrs. Robert May, Jr.	Mrs. Waldren Lojko	
	PU-3-67, W. B. MacMillan			
	OH-1-65, C. W. Army, Jr.			
	MARGARET HUNTER,			
	W. B. MacMillan			
	62-95-F, J. K. Mertzweiller			
MAINE				
Auburn	65-1, Brooks Quimby			
MASSACHUSETTS				
Peabody	Waltham Field Sta.			
Worcester	Waltham Field Sta.			
MICHIGAN				
Fairview	Evelyn Robarts	Letha Shantz	Bobby E. Jenner	
Flint		Mrs. Jack Krueger	Mrs. Jack Krueger	
Kalamazoo		Mrs. R. F. Miller	Rex Wallace	
Lansing		Ernestine Beyer	Mary Stevens	
Livonia		Elizabeth Becker	Mrs. Thomas Mahoney	

<i>Place of Show</i>	<i>Exhibition Certificate</i>	<i>Commercial or Educational Exhibit</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
<i>MINNESOTA</i>				
Bagley Minneapolis	64B-1, Bakke-Messer 65J-2, Carol Lankow	Walter Carlock	Lulu Skare Mrs. J. D. Sanford	Adelaide Gulsvig Mrs. W. G. Simdt
<i>MISSISSIPPI</i>				
Jackson	MISS B HAVEN Ruth Blackburn	J. H. Case	Mrs. Rush Graves	Mrs. Rush Graves
Jackson		Mrs. J. C. McCollough	Mrs. A. C. Griffin	Mrs. A. C. Griffin
<i>MISSOURI</i>				
Farmington Joplin Kansas City Washington	33-63, Dave Niswonger 1-64, A. R. Soos 61-64, H. J. Selle		Mrs. Perry Hager Mrs. John Carroll Mrs. Phil Trainer Dixie B. Hadley	Mrs. Perry Hager Mrs. John Carroll Mrs. Phil Trainer Dixie B. Hadley
<i>NEBRASKA</i>				
Crete			Mrs. J. H. Macholan	Mrs. Edward Hesh
<i>NEVADA</i>				
Henderson Las Vegas			Lucille Harden Mrs. Abe Miller	Mrs. Abe Miller
<i>NEW JERSEY</i>				
New Brunswick	F1, Melvin Leavitt Ex 8, Melvin Leavitt	John Juhasz	Mrs. Ralph Berkson	Mrs. Ralph Berkson
<i>NEW MEXICO</i>				
Albuquerque	GB3-64, Mrs. B. O. Barnes 3-26A, A. Rosenzweig	Mrs. W. R. Hooper	Mrs. Bobby Allen Mrs. P. F. McCanless	Mrs. George Felzman
Albuquerque	GB-21-65 Mrs. B. O. Barnes 3-26D, A. Rosenzweig 3-20F, A. Rosenzweig			
Hobbs				Mrs. Greg Garnett
<i>NEW YORK</i>				
Oyster Bay, L. I. Rochester	348, H. C. Porreca	William Peck	Mrs. Robert Gay Mrs. G. Bradzinski	

Artistic Sweepstakes

Commercial or Educational Exhibit

Exhibition Certificate

Place of Show

OHIO

Akron MIO 8, Mary L. Dunderman
Cleveland 2-65, Paul Brink
Dayton

Mansfield 57-1-y, Paul Brink
Springfield C61-73, Mrs. J. J. Cronin
Springfield 67-1, Seigling

OKLAHOMA

Enid 64-4-H, Tom Munger, Jr.
Okla. City 18-26, Dennis Jones
Quartz Mt. Lodge
Shattuck

Stillwater 67-43-1, J. W. Humphrey
Tulsa

OREGON

Portland 63-18, R. J. Beattie

PENNSYLVANIA

Newton Square

SOUTH CAROLINA

Cayce

TEXAS

Rock Hill

UTAH

Logan

Ogden

Best Arrangement

Claire Johnson
Joseph Batcha

William Krockler
Mrs. Fred Schuster
57-1-y, Paul Brink
C61-73, Mrs. J. J. Cronin
67-1, Seigling

New Horizon Garden Club

C. E. Bradley
18-26, Dennis Jones
Florence Oliver
The A. J. Hickersons
Mac's Iris Gardens

Grace LaDuke

Mrs. Bill Kuykendahl
Mrs. George Huckaby
Mrs. Floyd Payne
Mrs. W. O. Wozencraft

Mrs. Harry Moore

Mrs. Levy Parr
Martha Young
Mrs. W. Z. Dilbeck
Eleanor Hill

Mrs. D. B. Hallman

Mrs. W. K. Chapman
Nick's Iris Garden
The W. M. Morgans

Mrs. Sam Sellers
Mrs. R. H. Christian
Lyn-Mar Iris Gardens
Mrs. Edwin A. Berg

CRYSTAL CANYON, J. R. Allen

Mrs. H. G. Breckenridge
Bennidean Hammock

Mrs. Sam Sellers
Mrs. R. H. Christian
Mrs. Roy E. White
Darla Benson

*Gary Jones
Mabel Decker*

M-15, Thelma Saltern
5-10-64, Ben Stanger
E-63-34, The John Englishes

<i>Place of Show</i>	<i>Exhibition Certificate</i>	<i>Commercial or Educational Exhibit</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
Salt Lake City	65-6-FV-MM, D. C. Anderson 61-13A4, R. C. Solomon 56-108-1, Bion Tolman 67-2-J, Mildred Johnson 67-3, Mildred Johnson	Mildred Johnson	Mrs. C. M. Reynolds Mildred Johnson	Mildred Assay
WASHINGTON	No Number, Jack Baushay	Mrs. Bea Simes Mrs. Bert Warner Eden Road Iris Gardens	Mrs. Dee Wolf	Mrs. Charles Ellner
Entiat		Norris Carter		
Kennewick Opportunity Richland Spokane Sunnyside Walla Walla WISCONSIN Milwaukee	F67-1, W. G. Kellie 667-3-25, J. A. Linse 63-E-9, Dorothy Guild FAVEL, Mrs. L. H. McBride 4-13-B1, Opal Brown 64-10, Clarence Protzmann 60-2, Mrs. George Ney 67-37, A. G. Blodgett	Mrs. G. E. Hicks Mrs. Gene Lundeen Mrs. William Snell Mrs. Clarence Freeman Mrs. Wm. Snell Mrs. Jake Smith Mrs. Melvin Bausch	Mrs. William Snell Walter Hoppe Mrs. C. T. Bromley Mrs. Wm. O'Connor Mrs. Wm. Snell Mrs. Jake Smith Mrs. Melvin Bausch	Mrs. William Snell Walter Hoppe Mrs. C. T. Bromley Mrs. Wm. O'Connor Mrs. Wm. Snell Mrs. Jake Smith Mrs. Melvin Bausch

1968 SHOW CHAIRMEN

1. Order supplies from the St. Louis office.
 2. Send reports promptly to the Exhibition Chairman.
 3. Please type or print or write plainly, and be sure that spelling is correct.
- These items will help the Exhibition Chairman make an accurate and complete report for the BULLETIN.

Anatomy of an Iris Show

G. F. HANSON

This year at Minneapolis we ran true to form and staged a big iris show. Big shows are just a way of life for us. We always rank near the top of the list when the national statistics are published. In 1965 we reported 15,000 viewers, which topped the nation. But Modesto, California, squeezed us out for the highest number of exhibits by a margin of five stalks. This disturbed us a little, so when the 1966 show rolled around we hit the top of the list in both categories, with 671 exhibits and 16,000 reported spectators.

Then came 1967. As the time of the show approached we were faced with such discouraging circumstances that we considered cancelling it. We didn't cancel. Instead we exceeded our 1966 figures considerably and came up with 901 exhibition stalks and a reported 17,000 spectators. As this is written I have not received confirmation of our national ranking. It may be that some other society exceeded the size of our show. If so, we extend our sincere congratulations. But whether we come up with the largest show in the nation, or merely one of the largest shows, we always produce an outstanding iris spectacle at Minneapolis. And the reported number of exhibits includes only competitive exhibition stalks. It does not include arrangements, commercial and educational displays, or non-competitive exhibits.

In past years I have received inquiries from other committees and show chairmen. They all asked essentially the same question—how do you do it? I do not propose here to write a textbook treatise on how to stage an iris show. There is already plenty of available material on that subject, and it is much more authentic than anything that I might turn out. Rather I propose to look behind the scenes of a consistent series of large exhibitions, and to examine the facts and motivations that make them more than just another series of shows.

Obviously in any iris show there are two essential ingredients, irises and people. We have both, in quantity and in quality. Let's consider the irises first. Contrary to popular opinion in areas with gentler climates, Minnesota is actually a splendid horticultural state, and one of the plants that takes to us wholeheartedly is the iris. Oh yes, there was one famous winter some twelve years ago when 90% of our plantings were wiped out, along with most of our other perennials and even some woody shrubs. We have learned a great deal since then. It does get cold here, down to 30 below in a normal winter. We know that we have to use a winter mulch of hay or straw to be sure of bringing our beauties through without losses. We may get an abundance of nature's own mulch, snow. Or we may get very little of it. We normally get adequate fall rains before freezing weather, but we know if they fail to appear we will have to water so that our plants go into the winter in moist soil. If we follow the rules we have learned, we can grow irises. And such irises! I have seen them in bloom in many different parts of the country, but I have never seen them in quality that surpasses the normal standard right here at home.

We do have one requirement, and it is a sore spot with all of our growers.

When we ask a plant to survive winters like ours, it must be essentially hardy. We are convinced that in the quest for color, size, fluting, lacing and what-have you, some hybridizers have completely ignored our basic requirement of hardiness. We are a tolerant people. If we sink twenty-five dollars in somebody's high sounding creation and then find nothing but an empty space in the garden next spring, we will probably forgive you once. We may even stretch a point and let you get away with it a second time. But we are not likely to greatly revere the name of any hybridizer who consistently gives us introductions too thin blooded to survive here. In all sincerity I raise the question—can you afford to ignore an area capable of producing the top show of the nation? If you are interested in hardiness, guest your creations in Minnesota and you will get your answers.

So much for the irises. Now for the second ingredient. The people in this case constitute the Twin City Iris Society, and for the benefit of those to whom Minnesota is synonymous with the hinterlands, the Twin Cities are Minneapolis and St. Paul. This society was founded some fifteen years ago when a small group of enthusiasts broke out of the older and more conservative Minnesota Peony and Iris Society because they thought the "Iris" part of its name was receiving too little attention. From this upstart origin, it has lived through fat years and lean ones, even surviving that notorious winter when iris losses ran to 90% and convinced many erstwhile budding irisarians that the wiser course lay in petunias. Today its membership has grown to something like 140 devotees. Despite its restrictive sounding name, it is recognized as the state iris society, and is affiliated with the Minnesota State Horticultural Society and the American Iris Society.

There is nothing casual or half-hearted about the Twin City Iris Society. Its meetings are held every month of the year except July and August, and in one of those two months it holds its annual auction. Meetings are lively, interesting, and well attended, with programs that may embrace almost any horticultural subject, but always the dominant tone is irises. The original constitution, with conservative understatement, provided that "The Twin City Iris Society shall hold an annual exhibition during flowering season." This dictum has been viewed as the paramount objective, and throughout the year all activities point toward that great annual goal—the show!

Over the years our shows have been held at a variety of locations, but as they became larger space became a problem. Finally in 1965 a connection was formed with Southdale, a large indoor shopping center complex in Edina, one of the suburbs south of Minneapolis. This has been a mutually beneficial arrangement. The show generates a great deal of traffic for the shopping center, and they in turn have provided us with the space we need, as well as underwriting much of our expense.

The first year the show was staged in a large indoor garden court on the first floor. The setting was ideal, but space was still something of a problem. In 1966 our bloom was late and the show date had to be moved up a week. This led to a conflict with another garden court event, and we were moved to a balcony on the second floor. The result was a blessing in disguise. We were able to extend our tables all the way around the balcony and gain much needed room, while our multitude of flowers loomed up over the railing and dominated both floors.

A word about our spectator count. Obviously you can't register from

15,000 to 17,000 visitors, so we have used a periodic spot-check method, counting the people who pass a given point in a given time and then projecting the results. For the past three years the show chairman has come to me with the figures after the show, and we have scaled them down to make them believable. For those who may still have doubts about them, in 1966 we decided to report 16,000. Unknown to us, the fire department had also decided to take a look at the traffic through our show area. We later learned that their count was in excess of 20,000 for the first day alone, and it was a two day show!

How do you get the general public to turn out in droves like that to view an iris show? Well, we use all the advance publicity we can get. We have posters printed and on display well in advance of the show date. We take advantage of such publicity as we can get in newspapers, radio and television, and such other media as may be available. But we are convinced that the real secret is that we always provide the best possible spectacle, and people come back year after year. We have flower lovers who travel great distances every year, from the far corners of our state and from adjacent states. They come with notebooks, and they jot down varieties for their own gardens. They may find later that some of the things that caught their eye are priced out of their range, but we know that our shows have done a great deal of missionary work for the iris. We can't expect all of these folks to become fanatics like us, but you won't find very many home garden plantings in this area without at least a few irises.

Well, there you have most of the story, but not quite all. Back at the outset I said that the two essential ingredients for an iris show are irises and people. But when the going gets rough, you need one other requirement to turn an ordinary iris show into a spectacular exhibition. Starry-eyed, corny and improbable as it may sound, the name of that catalyst is determination, and never was its value better demonstrated than in our 1967 show.

The year opened with the heaviest snowfalls on record in this area. As the spring thaw approached we anticipated flooded gardens and resulting losses, but happily the snow had prevented deep freezing and the ground opened up and absorbed the water. The plants burst into growth, and things never looked more promising. Then in early May, with the irises in full growth, we had three consecutive nights of hard freezing, down as low as 14 degrees. Buds of the earliest varieties which had appeared were killed, and the foliage turned watery and browned back. In the meantime our usual spring rains had failed to materialize, the water from the snow was exhausted, and the plants struggled hard to fight their way back.

Our May meeting is always devoted to a preparation for the show, with a panel of our more experienced exhibitors giving advice to the beginners. By the night of the meeting things looked black indeed. As one member after another reported devastating damage, it seemed impossible to even consider staging a show. Then Greta Kessenich, our dynamic show chairman, took the floor. She quickly shifted the thinking back into a positive vein by pointing out that Southdale had already invested money in advance publicity and the printing of show schedules, and that we were morally obligated to come up with some sort of an exhibition. Since the prospect of typical Minnesota show stalks looked slim, she asked for a large number of non-competitive "bouquets." They were to contain as many irises as possible,

supplemented with any other flowers that might be available. She told me afterward that she was afraid to speak of "arrangements" because they might sound too technical to beginners. What she really wanted was just flowers, as many as possible.

With the optimism somewhat restored, the panel went ahead with their advice on the selection, cutting, transporting and displaying of show stalks, and the members went home, certainly not expecting any miracles, but grimly determined to make the best of a bad situation. But one final blow remained to be felt. The day before the show the long overdue rains arrived, and with a vengeance. Personally, I will never forget the experience of trying to cut and salvage show stalks with water pouring down over my glasses!

I don't know where our heroic people found all those show stalks, but they found them. Beginners who had never shown before came in with their few treasured stalks. Old timers came with their tubs full. Every member with anything worth cutting slashed his garden to shreds to make that show. The exhibition stalks came; the arrangements came; the "bouquets" came; the tables overflowed. And most amazingly the quality, while perhaps not up to the best Minnesota standards, was at least average. Somehow, out of apparent disaster, these great hearted folks salvaged another tremendous iris spectacle.

How do you put on the biggest iris spectacle in the nation? Well, you have to have the irises. And you have to have the people. And then you have to have the determination, and there is your show. Do you doubt it? Come and visit us next year, because we'll be right back at the same old stand with another barn burner!



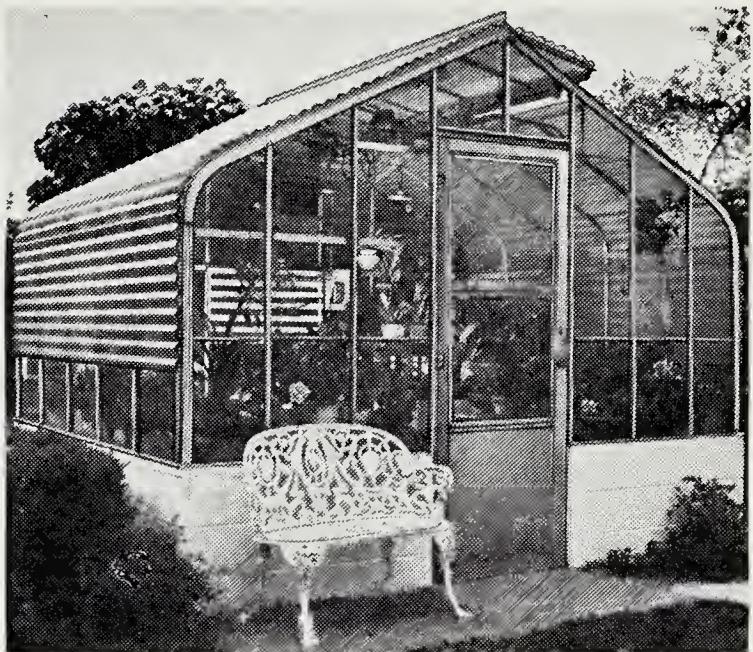
The central portion of an educational display entered in the Southern California Exposition by Bill Gunther; photo taken July 1, 1967. This display featured six kinds of irises, with lilies and hydrangeas for contrast material; it was awarded an AIS Bronze Medal certificate. (Photo by Thurmond)

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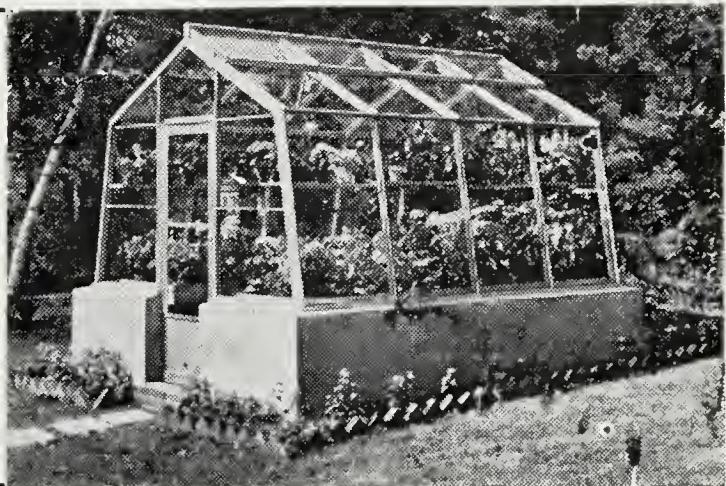
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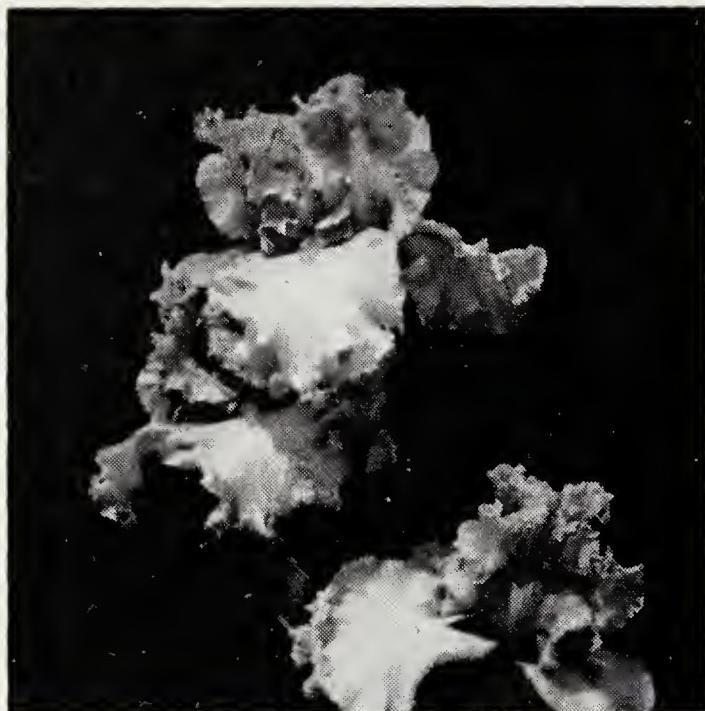
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Franklin Tice, RVP Region 7, and TRANQUILITY, Queen of the 1967 Blue Grass Iris Show. Photograph courtesy Mrs. Goebel Porter.

The Birth of the Reblooming Iris Society!

DR. LLOYD ZURBRIGG

The Denver convention of 1967 will be remembered by many of us as the birthplace of the Reblooming Iris Society. Here an enthusiastic group of irisarians, devoted to the idea of extending the iris season through rebloom, listened attentively to the reading of a set of bylaws for the proposed society. After making two amendments the bylaws were passed and the Reblooming Iris Society, a Section of the American Iris Society, was open to membership.

Charter night memberships, many of them triennial, exceeded thirty, and included our AIS president, Hubert Fischer; the Chairman of Sections, Ed Varnum; one RVP, three past RVP's and several prominent hybridizers. This excellent start was a source of great pleasure to the committee who had drawn up the bylaws. The committee, of which the writer was named chairman this spring, consisted of Edwin Rundlett, Editor of the Reblooming Iris Reporter, Staten Island, N.Y.; William Kelley of Lewisburg, West Va., who did most of the assembling and amending of the bylaws; Raymond Smith of Bloomington, Indiana, professor of speech at Indiana University, whose many amendments to the first draft were of great help; Clarence Denman of Fort Worth, Texas, also a professor but of history, whose wise counsel was always to the point; Tom Craig of Hubbard, Oregon, and Escondido, California, one of the nation's foremost hybridizers, who has been breeding remontant as well as "regular" irises for many years.

By the end of the convention the number of members had climbed to over forty. On August 3 Clarence Denman phoned me from Texas with the news that membership had passed the hundred mark with the induction of four new members at the meeting of the Fort Worth Iris Society. All members joining up to December 31 of this year, 1967, will be considered charter members of the Reblooming Iris Society. Copies of the bylaws and membership application blanks may be obtained from the writer or from Dr. Clarence P. Denman, 4214 Calmont Ave., Fort Worth, Texas 76107. Single membership, annual, is \$3, family \$4, and sustaining \$5, and each category is available on a triennial basis.

At Charter Night in Denver the following executive committee was elected: President: Dr. Lloyd Zurbrigg, Radford, Virginia.

Vice-President: Mr. Tom Craig, Hubbard, Oregon, and Escondido, California.

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Director of Northern District: Dr. Raymond G. Smith, Bloomington, Indiana.

Director of Southern District: Mrs. Wynnaline Stinson, Dallas, Texas.

The objectives of this new society, as stated in the by-laws are:

To promote the culture and improvement of reblooming irises.

To collect and disseminate information on the history, classification, hybridizing, climatic range, health and exhibition of this class of irises.

To encourage membership in and cooperation with the national, regional and local societies.

To encourage the establishment of test gardens, and of garden visitations.

To promote fall shows and exhibitions.

To assemble and broadcast varietal descriptions.

To promote awards for reblooming irises.

One of the earliest actions of the executive committee was to bestow honorary life membership on two men who have served the cause of reblooming irises faithfully over the years. Dr. Percy Brown of Central Village, Massachusetts, has been breeding reblooming irises with a single-minded devotion, for some thirty years. The hardiness and reliability of rebloom of his introductions has done much to strengthen the enthusiasm of growers in the areas of our nation with more severe climates as well as the more temperate areas. He is

still, in spite of health problems, hard at work producing new and better irises for us to enjoy.

The other recipient of the honor was our editor, Edwin Rundlett, whose work in publishing the Reblooming Iris Reporter has drawn attention to the cause of twice-blooming irises and stimulated interest in it. His classification of areas according to the number of frost-free growing days has helped his readers to get accurate ideas as to the desirability of particular varieties for their specific areas. Edwin is also Chairman of Reblooming Iris Robins, and through his good work with these has not only spread interest in reblooming irises, but gleaned valuable information for the Reporter. Moreover, Edwin has been active as a hybridizer and has several remontant introductions to his credit.

One of the most attractive features of the Reblooming Iris Society is that it is not restricted to one type of iris. While most reblooming irises are either intermediate or tall, dwarf varieties are appearing with increasing frequency, and there are reports of occasional remontancy in Siberians and spurias. The writer has seen a remontant stem in bloom on *iris versicolor* in August in Canada. So, the sky's the limit! Come on in and help us!

At the Species Level

B. LEROY DAVIDSON

The 1967 Seed List of the American Iris Society Seed Exchange is now ready for mailing to anyone sending a request accompanied by a stamped envelope. At last count a good many interesting seedlots had been received and listed, embracing a very substantial number of species, many of them hard to get. Most of the seed is being offered at 25¢ per packet or 5 for \$1. A limited amount of hand-pollinated seed is to be sent at 50¢ per packet. In another season requests for hand-pollinated seed may be filed with the director ahead of time in hopes someone will find it possible to make the pollination for the individual requesting it. Send requests to: Mrs. John R. Hardy, 296 Hunsaker Lane, Eugene, Oregon 97402.

The dwindling list of nurserymen offering seed or plants of some of the more unusual sorts of irises has been recently bolstered by the following: Laurie's Garden, Springfield, Oregon, offers plants and seed of a number of apogon species, particularly in the West Coast or Pacifica (*Californicae*) series, in addition to a general list of tall-bearded and garden-bred apogons. Mrs. L. M. McDonald, Portland, Oregon, offers seed and plants of western native iris species. Send stamped envelopes for the above. Earl Roberts, Indianapolis, Indiana, has for several seasons listed some of the selected forms of pogon (bearded) species. Some bulbous irises not often found in catalogs are to be had from P. de Jager & Sons, Inc., South Hamilton, Mass. These persons support AIS with ads in the commercial directory, which see. Anyone interested especially in the named forms of the "Pacificas" will want the list from Siskiyou Rare Plant Nursery, 522 Franquette St., Medford, Oregon 97501. (No seed). A rarely seen offering of Shilka Iris is found in the list of Ackerman Nurseries, Galesburg, Michigan. This early flowering strain of *Iris dichotoma* was originally collected by Hansen near Shilka, Siberia.

Species Iris Study Group

Students of the genus Iris will be interested in joining the activities of the newly formulated Study Group concentrating on the species of the genus, the unspoiled wildflowers, among which most are well adapted to garden use. Subscription to the publications should be sent to Mrs. Elizabeth Rowe, 588 East End Ave., Pittsburgh, Pa. 15221. The first issue of the Species Study Manual features a resume of the genus Iris, its position in the scheme of things, and an outline in looseleaf form of the format that future issues will fill in. The newsletter of the group's activities is included in the subscription, \$2 per year or 3 years for \$5. This group has instigated the seed exchange of benefit to every member of AIS and is deserving of your support.

Pure Species vs. Hybrids

While the Species Iris Study Group purports to be interested in the study of the Irises of Nature, the species, it is impossible to draw a line that will exclude the study of simple hybrids, if, for no other reason, simply because they are sometime found in Nature where two compatible species come in contact. Whereas it was at one time considered that all organisms in Nature were of some "species" or another, it is now widely accepted that, as species themselves do not exist in Nature (but rather only in the mind of Man in his attempts to classify organisms), so also related organisms exchange germ-plasm and become "hybrid", and particularly where Man has altered the habitats or removed what formerly been the natural barriers that had kept the species "pure". So we find that a goodly number of irises of fine garden value are found growing as "wild" plants in Nature and we seek to select the best and to preserve them. The recently described "new" species of Hexagonae, *Iris nelsonii*, is a case in point. Long known as the Abbeville *fulva*, this species is described as being of hybrid derivation between two, possibly three, of the species of Hexagonae at their point of contact, and, having stabilized, or become capable of perpetuating itself from seed, can now be given the status of a "good" species.

The study of these hybrids as found in Nature and the study of those of accidental or planned occurrence in gardens gives us, not only some plants of different and good garden uses, but also a tool for understanding what constitutes the species, and the known hybrid examples help us to understand the fine points separating one species from another. Whereas it was once thought that all hybrids were sterile, we now know that there are those which are not, and that in irises, these fertile ones are many.

TEST GARDENS

Because of the poor growing conditions in 1967 in all of the areas of all of the National Iris Test Gardens, and the consequent impossibility of observing the test irises in what might be considered normal growth and bloom, we feel that the test plants should be grown for another year and rescored in 1968. The very great variability in the reports prevents making any National Test Garden Award this year. The plants scored for the second year in 1967 will be held over and scored again in 1968.

R. C. ALLEN, *Chairman*

IN MEMORIAM

MAYNARD C. KNOPF

Mr. Maynard C. Knopf, of Potter Valley, California, passed away unexpectedly on August 3, 1967. He lived at Campbell, in the San Jose, California, area, for over forty years. Upon retiring from the Borden Company he searched for a new location which would be ideal for his beloved iris, and also be nearer his hunting and fishing haunts. For these reasons he chose Potter Valley five years ago.

Maynard had been a member of the AIS for many years. He was Area Chairman of Humboldt, Lake, Mendocino and Trinity Counties; and was a member of the Redwood Iris Society, which through his efforts was activated shortly after he moved to Potter Valley. The Redwood Iris Society has held an AIS accredited show each year since its founding at nearby Ukiah.

He was chairman of the Region 14 annual picnic and fund-raising committee, at Asti, California, for the past two years. The last of these enjoyable and profitable outings was held just five days before his passing. His warm, sincere, friendly personality was felt by all who knew him, and those who will miss him are legion.

In his article, "PHILOSOPHY OF A HYBRIDIZER," appearing in the Spring 1966 edition of Region 14 BULLETIN, he wrote, "Hybridizing iris has been the most stimulating and rewarding adventure of my life." His objective was always to encourage and promote the cultivation of irises. This enthusiasm spread to others, and through his generosity many were able to share and enjoy his love for irises. The passing on of Maynard Knopf has indeed left a void in the iris world.

An accredited Garden Judge he knew a good iris, and the high praise for his many introductions show his careful and critical selection of his fine seedlings. His POMOLITA won 2nd place at the Primero Firenze Competition this year.

Surviving are his wife, Eulalia "Beebee," of Potter Valley; three daughters, all of California, and nine grandchildren.

FRANK HUTCHINGS

JEAN STEVENS

The international iris world, and the New Zealand Iris Society in particular, have suffered a grievous loss in the recent death of Mrs. Jean Stevens. She was the founder and the only Honorary Life member of the Society, and her ready help in all aspects of the Society's activities will be sadly missed. Internationally renowned for her achievements in breeding new and original patterns in iris, she was also the author of a reference book for the Southern Hemisphere on the history, culture and breeding of the iris, as well as being the winner of top awards in the iris world.

Jean Stevens began breeding irises in the 20's and her first success came with DESTINY (1932) which won the Bronze Medal of the B.I.S. in 1934, and the Award of Merit of the R.H.S. in 1938. But her interests lay in the direction of amoena breeding and her carefully planned breeding programme had its major breakthrough in 1949 with the arrival of PINNACLE, the first

yellow amoena. So great an achievement was this that the amoena pattern of white standards and yellow falls became known among breeders the world over as the PINNACLE pattern. In 1949 PINNACLE gained the HM of the AIS and in 1951 the Society's AM. In 1955, another iris of this line of breeding, MYSTIC MELODY, in cream and gold, received the AM.

Mrs. Stevens was also working to produce pink amoenas with tangerine beards, an intensely difficult problem in hybridizing. Similar pattern developments did not follow the same techniques as in the yellow and white class, and long research and painstaking selection were required to develop the next hitherto unachieved colour pattern—the white standards and warm cocoa-pink falls with a red beard of SUNSET SNOWS, which early this year won three awards at the Florence International Iris Contest. It was third in the contest for the Premio Firenze, won the cup for the best early-flowering variety, and the cup for the most original colour. No other iris has achieved such a record since the contest was initiated. On the road to this success, Mrs. Stevens also produced POLAR CAP (HM 1956) in white and pale blue, and the first white and plum-red amoena, FINEST HOUR (HM 1961). Two others of her irises which gained the American HM are ROYAL SOVEREIGN, approaching orange in tone, and FOAMING SEAS, pale blue.

In 1953, Mrs. Stevens was the recipient of the Foster Memorial Plaque of the B.I.S., awarded as a "personal honour for those who have contributed materially to the genus." In 1955, she received the Hybridizer's Medal of the AIS, and, a signal mark of her position in the horticultural world, in 1956 was the principal guest speaker at the American Iris Convention—the first woman to be accorded that distinction. She was also invited to present a paper on iris breeding at the Florence Iris Symposium of world experts, but failing health prevented her travelling, and her paper was read for her.

Mrs. Stevens also contributed articles on all aspects of iris culture and breeding to international journals, and the BULLETIN of the N. Z. Iris Society bears constant witness to her generosity with her time and her knowledge.

Besides being an outstanding authority on irises, Mrs. Stevens shared with her husband an extraordinarily profound knowledge of plants, accompanying him on three collecting trips to the Australian outback, and on one to South Africa. To spend an afternoon with her in their garden listening to her comments on their extensive and beautifully grown collection was sheer delight.

"Take her for all in all, we shall not look upon her like again."



KAREN GLASGOW

Simplified Iris Embryo Culture

LEONARD P. STOLTZ²

Department of Horticulture
University of Kentucky

The iris grower is often vexed by the problem of delayed germination in iris seed. This problem is even more severe when crosses having diverse genetic backgrounds are made. The seeds of such crosses often fail to germinate for a number of reasons even though apparently normal seed is produced. Seed planted in soil germinates over a period of years, thus requiring breeders to set apart a small land area for each specific cross, since planting seed in this same soil in subsequent years could result in mistakes as to the correct parentage of seedlings. An alternative to this is to sow seeds in flats and discard the seed and soil after one year. The disadvantage of this method is that in some years, and with certain crosses, as few as only 10 to 30 percent of the seeds germinate. In other instances as few as two to five seeds may be produced from a certain cross; in such cases it is highly desirable to germinate all of the seed if possible. It is particularly important to plant breeders and geneticists who attempt to quantify inheritance to be able to germinate all of the seed produced and to grow the seedlings to maturity in as short a period as possible so that several generations can be evaluated in a reasonable time.

The technique of embryo culture can circumvent all of the problems discussed above and fulfill the needs for quantifying inheritance and, in addition, can produce plants which will flower two years from crossing. Embryo culture is not difficult, but it does require a certain amount of manual dexterity and the following of a rigid procedure to maintain aseptic conditions in the culture tubes. The materials and equipment necessary for embryo culture at the hobbyist level can be purchased for between \$50 and \$200, depending upon what equipment one may already have available.

If you are interested in undertaking iris embryo culture, I suggest that you assemble all of the materials and equipment before starting. Table 1 gives a list of materials needed, catalog number, quantity needed, and price. In some instances alternatives are given. Now, let's discuss each item in turn:

1. Difco orchid agar. The material comes in one-pound or one-quarter-pound bottles. One pound will make sufficient medium for 6,000 seedlings; the quarter-pound for 1,500 seedlings.
2. A 21-quart pressure cooker of the type used for canning. This is needed for sterilizing. Your local hardware dealer can supply it. Inside dimensions should be larger than 10" diameter and 7" deep to accommodate item 7 (test tube basket). The price should run between \$25 and \$35. This size pressure cooker will accommodate approximately 100 culture tubes for sterilization at one time.

¹ The investigation reported in this paper (67-10-78) is in connection with a project of the Kentucky Agricultural Experiment Station and is published with approval of the Director.

² The author acknowledges the assistance and advise of Victoria Reek-Malleezewen, Teehnieian, Department of Horticulture, who aided in development of some of the methods, carried out numerous excision studies and made the line drawings for this report.

3. Cotton. This must be the non-absorbent type. A one-pound roll is sufficient for plugging approximately 1,000 tubes. The plugs are used several times.
4. Culture tubes. The disposable type listed can be used several times or discarded after being used once. These tubes are quite serviceable but will break occasionally. Available in lots of 1,000, their cost runs a little over 3 cents each. A more rugged tube which can be used an unlimited number of times, catalog number 14-957, is available at 9 cents each. These may be ordered in quantities of 72 tubes per box.
5. Test tube brushes. These are used in cleaning the tubes after they have been used. Six should be acquired.
6. Dissecting needles, style A, are used to remove the embryo from the seed and to lower it onto the agar medium in the culture tube.
7. Test tube basket, 10 inches in diameter. This basket will accommodate approximately 100 tubes and is used to hold the tubes upright in the pressure cooker during sterilization. Wires placed across the basket to divide it into four or more equal compartments will prevent the tubes from falling over when they are being used.
8. Alcohol burner. This is used for periodically flaming the instruments during the excising process to keep them sterile.
9. Sulfuric acid (technical grade), five-pint bottle. This material is used to surface sterilize the iris seed prior to soaking. This method was found to be the most effective in killing all the disease organisms on the seed coat.
10. Funnel, pinchclamp and rubber tubing, used to transfer agar medium into tubes. See Fig. 3.
11. UV lamp and fixture. Aids in maintaining aseptic condition in the transfer box. See Fig. 2.
12. One pound sugar; used in preparing the nutrient medium. Available from your local grocery.
13. One package of single-edge razor blades. These are used to cut open the iris seed.
14. Two pair of tweezers for removing the plants from the tubes.
15. One quart of isopropyl alcohol, commonly called "rubbing alcohol, 30%." Used for sterilizing.
16. One sheet 1" styrafoam, insulation type. This can be purchased at your local lumber supply company. Test tube holders are made from the styrafoam by cutting it into pieces 5" x 12", drilling holes just large enough to accommodate the tubes, and wiring a solid bottom to it. We usually drill 10 holes on each outside edge and 8 holes in the center. A piece of cardboard, Masonite, stiff plastic, etc. is then wired to the bottom of the styrafoam to prevent the tubes from falling through (Fig. 5).

In addition to the above-mentioned materials, you will need an isolation box, which may be constructed as shown in Figure 1. The box should have an outlet for an incandescent bulb and may also be equipped with a 15-watt ultraviolet germicidal lamp. The fluorescent lamp fixture and ultraviolet tube will add about \$7.00 to the cost of the isolation box. The ultraviolet tube is not essential but does aid in maintaining aseptic conditions inside the box.

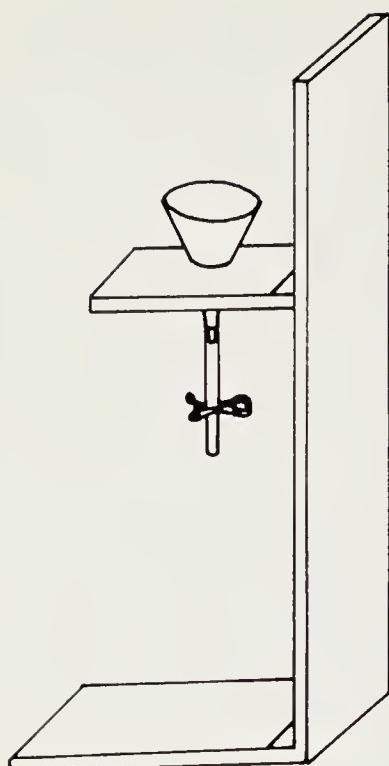


FIGURE 3. Funnel stand may be constructed of 1" x 6" lumber. This set up greatly simplifies placing the agar medium into the culture tubes.

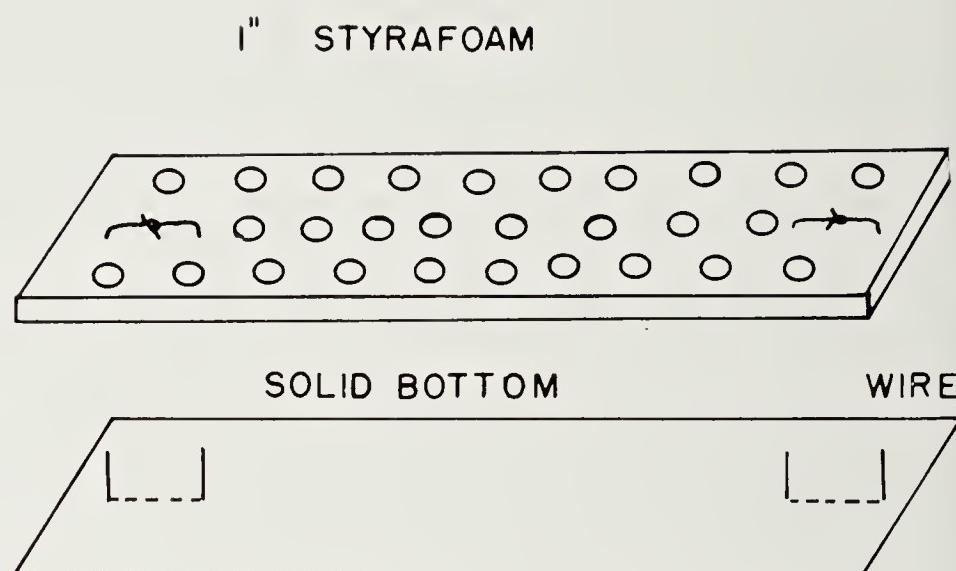
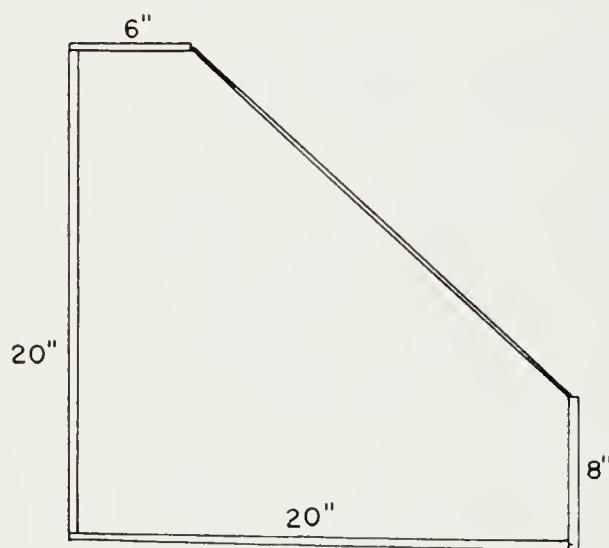
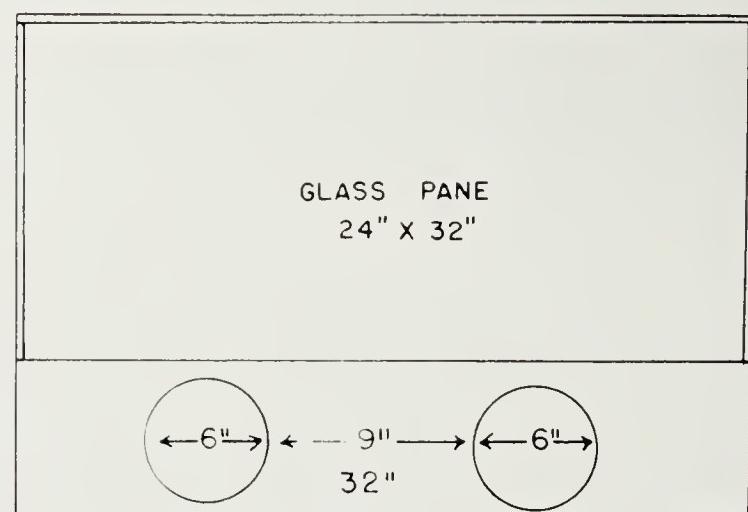


FIGURE 5. General construction of culture tube racks. Solid bottom is affixed to drilled styrafoam sheet by pieces of copper or other soft wire.



END VIEW



FRONT VIEW

FIGURE 1. Schematic diagram of the construction of an isolation box for aseptic iris embryo culture.

Our original isolation box is shown in Figure 2. The aluminum foil is used to shield the eyes from the ultraviolet light which is located behind it. If one works for a long period of time with his hands in the box, some sunburning of the hands may result. This can be avoided by turning off the ultraviolet lamp when work is done inside the box. However, the lamp should be on for 24 hours immediately prior to beginning work in the box. The frame of the box is made from either 1" lumber or $\frac{3}{4}$ " plywood. The sides should be painted with a good grade of enamel paint. The glass front is affixed (air-tight) by sealing with masking tape or Scotch electrical tape.

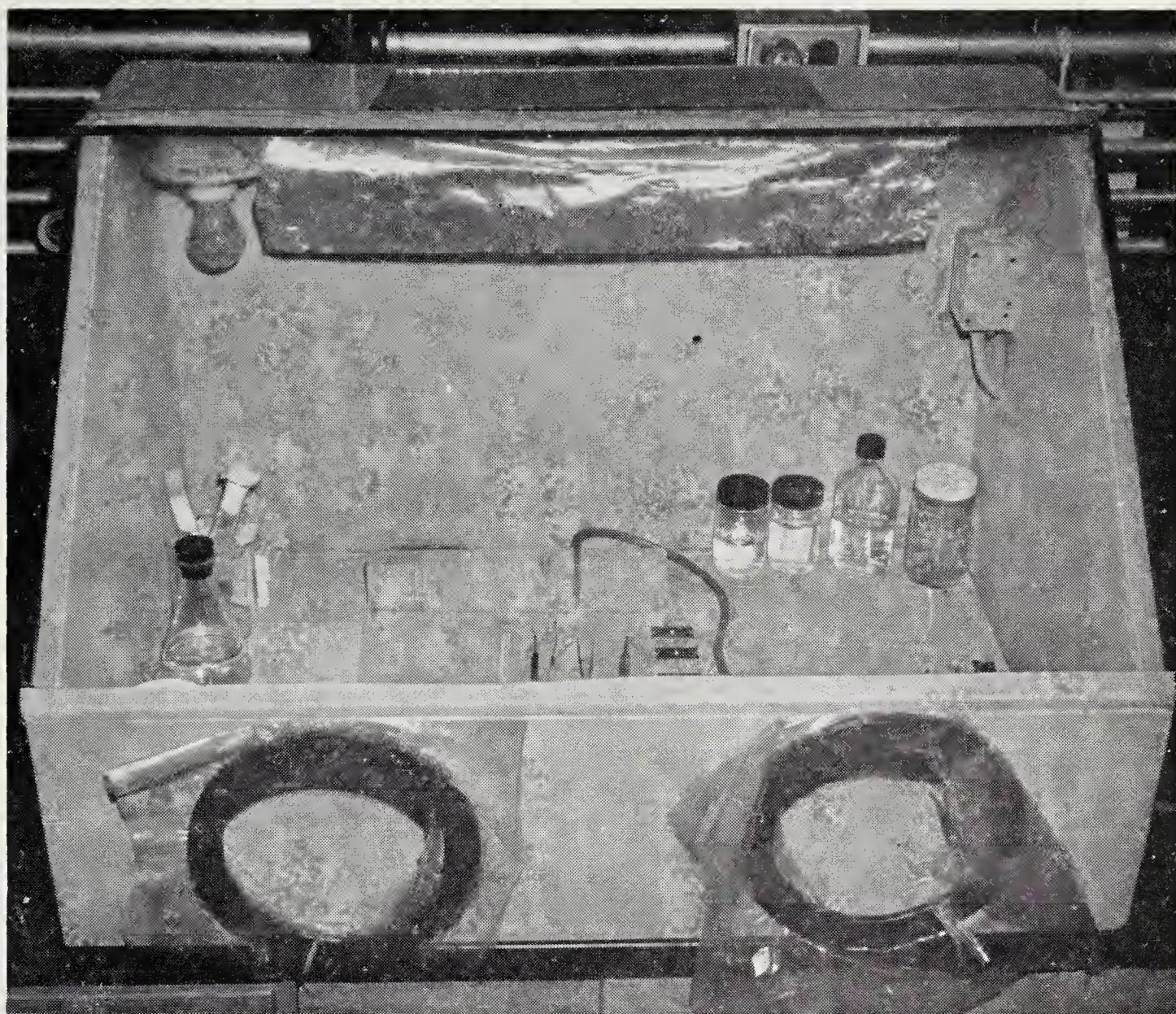


FIGURE 2. Isolation box constructed and used by the author for the past 2 years.

When all of the materials are on hand, you are ready to begin. The first thing to be done is to prepare the medium. To prepare enough medium for 100 tubes, measure one quart of water and add to it 20 grams of sugar (5 level teaspoons). Stir until the sugar is completely dissolved. Now, heat the solution to boiling and add 7½ grams (4 level teaspoons) of Difco orehid nutrient agar (disregard the directions on the label). Stir until the agar is completely dissolved, which usually takes from 3 to 5 minutes. Remove the medium from the fire and let it cool somewhat; do not allow it to become too cool or it will solidify. While it is still hot, pour approximately one to one and one-half inehes of medium into each tube, using a small funnel, or a funnel may be supported and a hose and pinch-clamp attached as shown in the Figure 3. This set-up is much easier to use; the rubber tube is plaeed in each eulture tube and flow is controlled by the pinch-clamp. (Hot water should be poured through the funnel and tubing to warm the equipment before beginning to fill the tubes and again after the agar medium has been distributed into tubes to prevent its solidifying and blocking the tubing).

After the medium has been placed in the tubes, stopper each tube with non-absorbent cotton. Some practice will be required in preparing the cotton plugs for the tubes. These should be slightly larger in diameter than the test tube and about 2 inches long (Fig. 4.) If the plugs are wound too

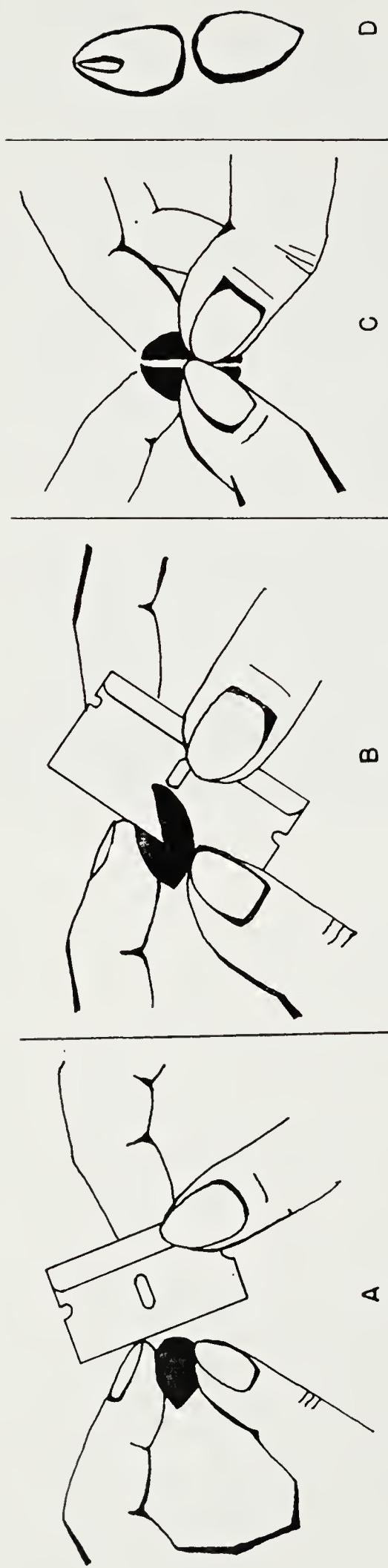
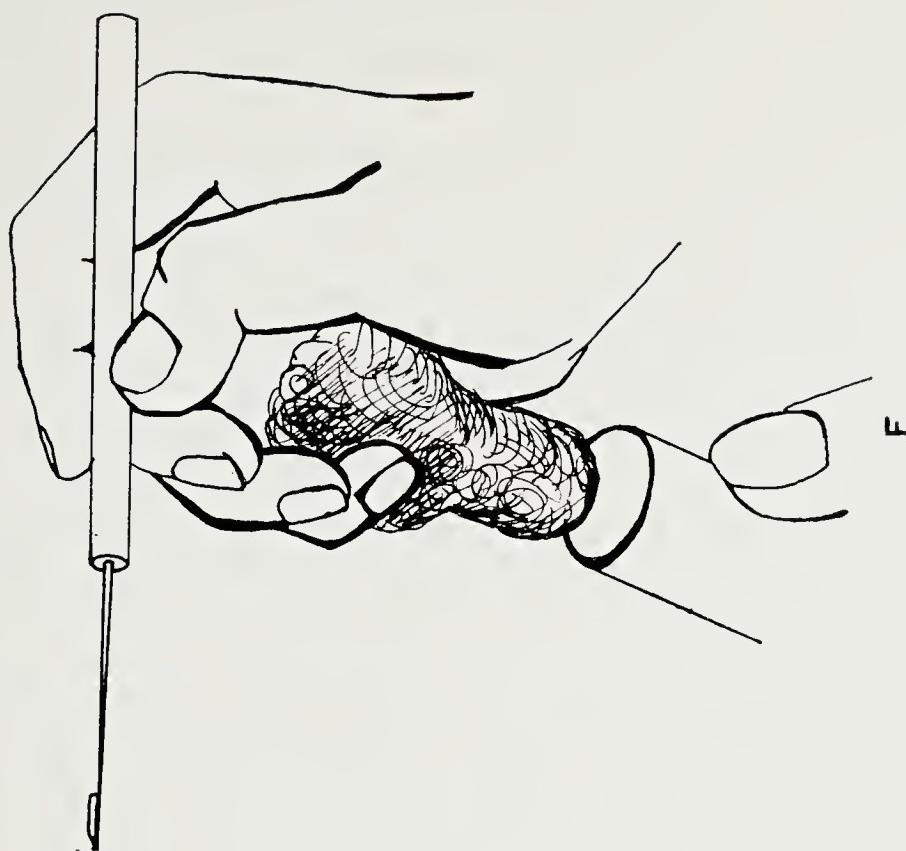
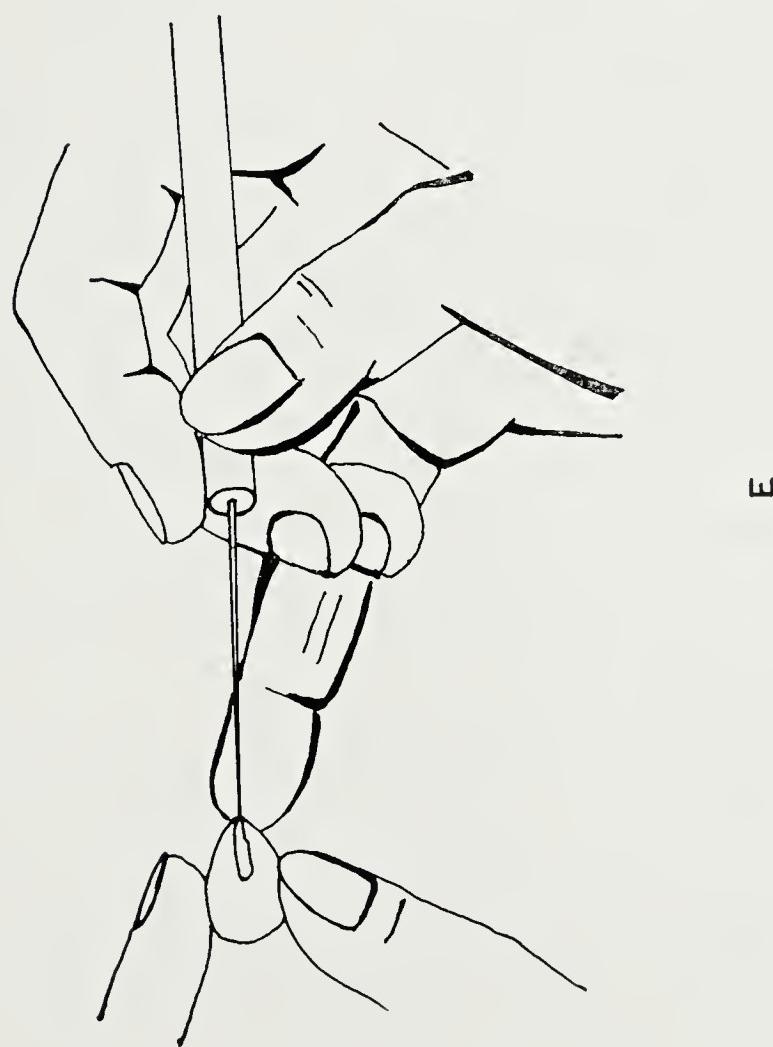


FIGURE 4. Procedure for isolating iris embryos from seed and placing in culture tubes. A. Cut seed on rounded end. B. Cut about $\frac{1}{3}$ to $\frac{1}{2}$ way into seed. C. thumbnails placed in cut and seed torn open. D. Seed torn open with embryo exposed (discard half without embryo.) E. Existing needle may be steadied by placing the little finger of the right hand against the bottom of the seed half or against the thumb of the left hand. F. Embryo is balanced on the needle while cotton plug is removed and held by the little finger of the right hand.



F



E

FIGURE 4

tightly, they may blow out during sterilization. If they are too loose, they will not prevent contamination during the 4 to 6-week growing period.

At this point you are ready to sterilize the tubes and medium. If you have purchased a new pressure cooker, follow the recommendations for operation as given in the booklet accompanying it. In general, these directions usually require placing 2 to 4 cups of water in the bottom of the sterilizer, and then placing the basket containing the plugged test tubes with culture medium in the pressure cooker. Seal the pressure cooker and begin heating. The sterilization procedure should be continued for 20 minutes at 15 pounds per square inch. Timing begins after the pressure cooker has reached the desired pressure of 15 pounds per square inch. When the sterilizing time is complete, remove the cooker from the fire and allow it to cool slowly since rapid release of the pressure inside the pressure cooker can result in cotton plugs being blown out of the tubes. When the pressure cooker is sufficiently cooled to handle, remove the basket of tubes and set it aside to cool and solidify the medium.

To prepare the seed for embryo culture, select from 50 to 100 seed and place them in a small water glass, pour sufficient concentrated sulfuric acid over them to completely cover the seed. If the seed float, the glass may be shaken to wet them with the acid. Remember that this is concentrated acid and is dangerous; be extremely careful in handling it at all times. Allow the seed to remain in the acid for 30 minutes. After 30 minutes the acid may be either poured off and discarded or saved and used a second time. After pouring off the acid, place a small piece of screen over the top of the glass and flush forcefully with water to remove the remainder of the acid. The screen will prevent the seed from being washed out of the glass by the force of the water. Place the seed in about $\frac{1}{4}$ to $\frac{1}{2}$ cup of water for 3 days, and change water each day. A 3-day soaking period is needed to sufficiently soften the seed so that it can be cut open.

After 3 days you are ready to begin excising the seed. Wash down the floor and sides of the isolation box with isopropyl alcohol. This is done to thoroughly sterilize the surfaces of the isolation box. Allow 1 to 2 hours for the isopropanol vapors to diffuse out of the box. Place a small glass of alcohol in the isolation box, and place the points of the dissecting needles in it. Several razor blades should be soaked in the alcohol, removed and laid on facial tissues in the cabinet to dry. Place the alcohol burner in the isolation box, and light it. CAUTION: Be sure all alcohol vapors are gone from the box before putting any fire in it. The culture tubes with medium should also be placed in the box at this time. Pour the water from the soaked seed, rinse them once with alcohol, discard the isopropanol and place the seed on facial tissues and blot to remove excess alcohol. This procedure is best done in the isolation box; it will also usually sufficiently wet the fingers of your hands to sterilize them for subsequent handling of the seed.

The embryo isolation procedure is shown in Figs. 4A-4F. To isolate the embryo, take one seed and place it between your forefinger and thumb, having the more rounded end of the seed exposed and the pointed end tightly closed between finger and thumb (Fig. 4A). Using a razor blade, slice approximately $\frac{1}{3}$ to $\frac{1}{2}$ of the way into the seed (Fig. 4B). Then, by placing both thumb nails into the slit made from the razor blade, the seed can be torn open and the embryo exposed (Fig. 4C). Care should be taken to

avoid touching the embryo with the fingers or getting alcohol, which is toxic to plant tissues, on the embryo. Discard the half of the seed which does not contain the embryo (Fig. 4D). Take a dissecting needle from the alcohol, flame the point to remove excess alcohol, allow a few seconds for the needle to cool, and gently lift the embryo from the seed. The needle can be steadied by placing the little finger of the right hand against the fingers of your left hand while picking up the embryo with the needle (Fig. 4E). Also it is not necessary to flame the needle each time an embryo is picked up if you avoid touching the needle to anything which may be contaminated.

While balancing the embryo on the needle of your right hand, pick up a culture tube with your left hand and remove the cotton plug by grasping it between the little finger and the heel of the right hand (Fig. 4D). Continue holding the cotton plug in this position while gently lowering the dissecting needle and embryo down to the surface of the medium in the culture tube. Withdraw the needle, replace the cotton plug, and place the tube in a rack. Continue the excising process until you have completed all of the seed of a cross. At this time, label each of the racks appropriately.

When you have finished the excising process, the tubes should be placed in a darkened area at a temperature at about 80°F., if possible. They should remain there for a period of 3 days and then be removed to a lighted area for later growth. The temperature of the lighted area where the seedlings are to be grown should be about 70 to 75°F. for the first 4 weeks. At the end of 4 to 6 weeks the seedlings may be removed from the tubes and planted into soil. The seedlings are removed from the tubes by removing the cotton plugs, grasping the leaves with a pair of tweezers, and pulling out the seedling; the agar should remain in the tube. At this time the seedling should be 3 to 5 inches tall and have 2 to 3 roots. Care must be used in potting the seedlings so as not to break the roots.

The soil used for potting the seedlings should be 1 part soil, 1 part peat moss and 1 part perlite by volume. Two-inch peat pots set into a wooden flat and filled with the soil mixture have been used in our work. A hole is dibbled into each pot, the seedling roots placed into the hole and the soil gently pressed against the roots. Avoid setting the seedlings too deep. The seedlings should be watered immediately after potting and placed in a semi-shaded protected area. A 2-foot high polyethylene enclosure will reduce air movement and subsequent wilting of the plants. A regular fertilization program is recommended. When the plants are well established they are then set out in the open ground.

TABLE 1

<i>Material</i>	<i>Source</i>	<i>Cat. No.</i>	<i>Quantity</i>	<i>Price</i>
Difco Orchid Agar	Difco Laboratories Detroit, Mich. 48233	0242-01 0252-02	1# $\frac{1}{4}$ #	\$10.00 3.40
Pressure Cooker 21-quart size	Local hardware supply		1	\$23-35
Cotton (non-absorbent)	Fisher Scientific Co. 1458 N. Lamon Ave. Chicago, Illinois 60651	7-895	1#	2.10

Culture Tubes (disposable) 20 x 150 mm or	Ditto	14-958-50	1000	33.00
Culture Tubes 20 x 150 mm	Ditto	14-957	each	.09
Test Tube Brushes	Ditto	3-573	6@2.10/dz	1.05
Dissecting Needle Style A	Ditto	8-965	.75/dz	.75
Test Tube Basket Size B 10" dia. x 6" ht.	Ditto	14-797	2@ \$3	6.00
Alcohol Burner	Ditto	4-245	1	1.50
Sulfuric Acid Tech.	Ditto	A-298	5 pt.	3.30
Funnel—125 mm	Ditto	10-373	1	1.98
Pinchcock	Ditto	5-849-A	1	.85
Rubber Tubing 5/15" I.D.	Ditto	14-178	1 ft.	.18
Fluorescent Fixture 15-Watt	G. E. Lighting Suppliers	S-115	1	3.10
Germicidal Lamp UV 15-Watt	Ditto	G 15-T8	1	3.50
Cane Sugar	Local grocery		1#	.20
Razor Blades— single-edge	Local drug store		10	1.00
Tweezers	Ditto		2 pair	.20
Isopropyl Alcohol (Rubbing alcohol)	Ditto		1 qt.	.69
1" thick Styrafoam insulation type	Local lumber supply			1.50

FUTURE AIS MEETINGS

1968—Berkeley, California	April 29-May 2
1969—Milwaukee, Wisconsin	June 4-June 7
1970—New York City, New York	Dates undetermined
1971—Wichita, Kansas	Dates undetermined

From the Editor's Desk

No sooner are the preliminary awards flyer in the mails than we have to go to work on the October Bulletin. The magnitude of the awards assignment grows and grows, and we got curious as to the numbers involved in the HC awards alone. Three hundred thirty-six different hybridizers were listed in the HC section, and 1,311 separate seedlings. It was evident that judges had viewed a lot of seedlings this year.

It is not always understood that in the case of the SDB, the IB and the BB classes, the Award no longer is given, but the AM has been substituted, and a Medal status is above the AM. For a period of four years, those which won the Award status in these classes are eligible for the Medal, and after that only the AM winners are eligible for the Medal.

We experimented in interest of getting the preliminary awards flyers to the membership as soon as possible, and the check through the registrar's files will bring about some changes. The final and corrected report appears elsewhere in this Bulletin. Interestingly enough, three ballots that were post-marked June 29 arrived here on July 12, after the form already was on the press. These legal ballots are added to the total and appear in the corrected awards list.

President Fischer was much impressed with the way Lester Hildenbrandt's son, thirteen years of age, was going about the business of hybridizing irises all on his own.

We note with profound admiration the fact that the Mio Irisarians held their twenty-third consecutive iris show this spring, all under the rules and the sponsorship of the American Iris Society. When one considers the vagaries of the weather and all of the other caprices that can upset the best laid plans for an iris show, this record of twenty-three consecutive shows without a break is truly astonishing. The Mio Irisarians, Bennett S. Azer, and all those who helped over the years to compile this amazing record, deserve the plaudits of the Society.

It was interesting to note that the national meeting at Denver was the forty-fourth national convention of AIS, and that Board held its eightieth meeting.

The lives of three of our best-known members have been altered suddenly and drastically. Carl Jorgensen has taken a two-year leave from the University of Colorado to the University of Nebraska Mission in Columbia, South America. He will have a brief indoctrination period in Bogota, and then will move on to Cali, the second largest city in Columbia, where a branch of the University is located. He is going to assist in developing a department of plant physiology.

Tell Muhlestein has begun work for the school district of Provo. I am interested in noting that he begins his career in public education the year that I close mine. After an idyllic life, it may be strange to Tell to meet a time clock.

Keith Keppel now is employed in the Census Bureau at Washington, D.C.

I am sure that the move startled everyone, but his NINEVEH keeps on piling up the votes. What a time our typesetter has with the word NINEVEH. Keith reports that his only horticultural effort to date in Washington is an African violet.

The Northwest Median Iris Society has sent in a check of \$28.56 for the Scientific Fund, and the Delaware Iris Society sent a check of \$25 for the same purpose. As often has been noted here, we are moving into an era when the quest of science for the answers is going to be increasingly important to the horticultural and agricultural worlds.

We note with some interest that the Regional Test Gardens are catching on, and the evidence seems to be that many of them will be in full-bloom operation next year. There were RTGA votes from a number of Regions, and this year the Regional Test Garden Award was given to iris seedlings from three Regions.

The mailman commented the other day that the postmaster had remarked he had never known an Omaha residence to receive as much mail as 3131 North 58th. One hundred-fifty ballots came in on one day. However, we have been able to keep the tabulation current. By keeping the count current, and air mailing the copy on October 18, having reserved the space, we will be able to give the results of the Judges' Choice ballot to our readers elsewhere in this Bulletin.

Spent three days in Oklahoma City, and Kay and I spent fourteen-hour days checking the official ballot, making the corrections as shown by the registrar's files, and checking copy. Those were three tough days, and I was glad to get the job done and get back to Omaha.

The Popularity Poll shows some new leaders, and I think it bears out what I have felt for the last year or two—that there again is a marked upward surge in the quality of our tall bearded irises. This I am glad to see. And, while I am at it, may I growl that we need some HOW articles from tall bearded growers and breeders, and we need them desperately. The HOW of a breeding program, the HOW of a growing program, the HOW of a soil program, the HOW of a pest and disease control program, and all of the other HOWs in which iris gardeners are interested.

The RVPs who are leaving this year at the end of their three-year stint deserve the plaudits of grateful Regions and of the entire American Iris Society. Blessed indeed is the Region with an energetic Regional Vice President.

John Bartholomew leaves the Board of Directors this year, and it is with regret that we see him leave. He has done a tremendous service to AIS in the development of the Robin program, and the hours that he has given to this service can really be appreciated only by those who have had a similar project.

Taking John's place on the Board will be Hugo Wall of Wichita, Kansas. Those of us who know him well are impressed with his organizational ability, and his precisely and exactly phrased eloquence. Hugo has the ability to make a tremendous contribution to the AIS as a Board member.

As we gradually phase out of public education this year, the question

frequently arises between us as to what plants we will take with us to the new location, and what further irises we will buy as the basis of a breeding program. Found a couple of pieces of land in Arkansas that we like, and did put a bid on one of them. As with Tell, it will be a strange new experience, after being in the classroom and behind an administrator's desk for forty years. Life in the open seems to have some enticements.

We want to bid an official welcome as a section of AIS to The Reblooming Iris Society. We are glad to have them aboard; the scientists and gardeners who make up their membership indicates future success in the development of quality rebloomers.

The Board meeting will be in Dallas this November, and it will be nice to renew acquaintance with the enthusiastic Texas members.

You will note elsewhere in the Bulletin the request that all introducers send catalogues or price lists showing their introductions for 1967 to Kay. She thinks that she has notified all introducers who have sent us catalogues and sales lists with their introductions, and any who have not received such notification should be sure to send the proof of introduction to her. She must have this by November 1, for the job of typing the yearly book of registrations and introductions is a long and exacting job, and we have a printing deadline to meet. Be sure that the St. Louis office has your address as you want it to appear, in case it is decided to print the membership list this year.

The indication is that the California meeting will be one of the very biggest. There already is talk of sizable foreign delegations, and requests have come to this office to get the Southern California groups and the Pacific Northwest groups to set up an itinerary so those who drive and have the time can see some of these gardens before returning to the East.

There seems to be a revival of interest in irises on the part of the garden pages of the city newspapers and of the garden magazines. We have had several long distance calls and special delivery letters for black-and-white pictures which could be used on these pages. The last one was a long distance call from New York for a picture of WINTER OLYMPICS to be used in *House Beautiful*. Fortunately, we still had Fred Cassebeer's superb photo, and sent that on to them, with instructions to give him credit. We have built up a rather sizable file of black-and-white photographs of specific cultivars, and we were able to fill the demand for everything except photographs of arrangements using irises. The garden pages of city newspapers seemed especially interested in such photos last spring. One of the last requests was from the editor of a book who wanted pictures showing irises in specific landscape plannings. We were able to send him some.

Thus, we close the last lines of the October Bulletin, paged and all proof-read except this column and the Judges' Choice results. It now goes on to Kay for another proofreading and checking, and then on to the printer, and then hopefully into the mails on the fifth of October. To us it has been an interesting Bulletin, with less of the problem of getting copy on time, or at all; and our only regret is that we were not able to get some of the pictures of the winners. And now to the January Bulletin, the compilation of the material for the Registrations and Introductions book, and the compiling of the official ballot and the popularity poll.

SYMPORIUM—MEDIAN IRIS SOCIETY

<i>Standard Dwarf</i>	<i>Intermediate</i>	<i>Border</i>	<i>Miniature Tall Bearded (Table)</i>
1. Blue Denim	Cutie	Tulare	Pewee
2. Golden Fair	Lillipinkput	Jungle Shadows	Warbler
3. Sky Baby	Lime Ripples	Little Reb	Widget
4. Knotty Pine	Cloud Fluff	Bayadere	Dainty Dancer
5. Brassie	First Lilac	Fairy Jewels	Tom Tit
6. Blueberry Muffins	Drummer Boy	Debbie Ann	Daystar
7. Tinkerbell	Moonchild	Yellow Dresden	Desert Quail
8. Shine Boy	Little Angel	Timmie Too	Smarty Pants
9. { Easter Holiday	{ Kiss Me Kate	Blue Miller	Parakeet
10. { Green Spot	{ Sugar	Glacier Bay	Kaleidoscope
11. Zing	Blue Asterisk	Little Sir Echo	Ice Fairy
12. Dark Fairy	Barbi	La Nina Rosa	{ Mockingbird
13. Lilli-White	Proper Lemon	Little Lynn	{ Two for Tea
14. Circlette	Arctic Myst	Little Dolly	Tid Bit
15. Royal Contrast	Le Sabre	{ Black Forest	Eversweet
16. Derring-Do	Dark Eden	{ Little Gremlin	Sherwin Wright
17. Cherry Garden	Butter Bit	{ Pink Ruffles	{ Brown Crown
18. Lemon Flare	{ Pink Pride	{ Ellen Q	{ Nambe
19. { Blonde Doll	{ Small Ripple	{ Chocoletto	Blue Mouse
20. { Marinka	Small World	Cub Scout	Kinglet
21. { Velvet Touch	Glimmer	{ Little Dude	Quien Sabe
22. Sunny Heart	Indeed	{ Candy Sweet	Painted Rose
23. Lilli-Var	Arabi Treasure	Brown Rings	{ Blue Trimmings
24. Bronze Babe	Arctic Flare	Pinata	{ Shrinking Violet
25. Dear Love	Ohio Deb	Native	Topsy Turvy
		Daughter	

DONALD I. TUFTS, *Chairman*



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A Society organized by and for the Amateur Grower, to increase general interest in the cultivation and improvement of the Chrysanthemum.

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Devoted to the interest of the amateur chrysanthemum grower. The Bulletin gives a wealth of information about chrysanthemum culture, for all sections of the country. It also contains human interest stories and contests.

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From time to time, Handbooks on various subjects of practical, up-to-date information on all aspects of interest to amateur growers are published. Members may purchase these

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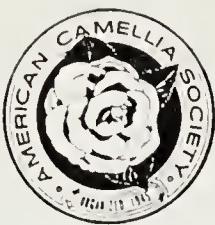
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The American Camellia Society will welcome you to its program of mutual pleasure and interest. For your convenience an application blank is printed below.

Annual Membership \$6.00

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P.O. BOX C • Tifton, Georgia 31794

ANNOUNCEMENTS

ATTENTION INTRODUCERS

We will have to start on the copy for REGISTRATIONS AND INTRODUCTIONS IN 1967 by November 1. All introducers who have sent us catalogues or lists of introductions have been notified that their introductions have been recorded. If you have 1967 introductions and have not been notified, send catalogue or sales list to Kay Negus, 4009 North Shannon Avenue, Bethany, Oklahoma 73008, at once. Be sure to mark clearly the introductions.

ATTENTION

TO THOSE WITH GUEST SEEDLINGS IN CALIFORNIA CONVENTION GARDENS

November 1, 1967, is the DEADLINE to notify the Guest Iris Chairman of any seedlings sent under number which since have been named and registered. Again we ask your cooperation so that labels and guest listings will be up-to-date. Please notify your NEW chairman, Mrs. Sven Thoolen, 255 Manzanita Drive, Orinda, Calif. 94563. (Keith Keppel, who has worked long and hard on the orderly distribution of guest irises for the 1968 convention in California, has had to relinquish his post as chairman because of moving out of the Region. The new chairman, in taking over, found everything in excellent order, and the Region wishes to express appreciation and heartfelt thanks and best wishes to Keith.)

NEW MEMBERSHIP LIST

1968 is the year for the triennial membership list, and it probably will appear as a supplement to the April, 1968 BULLETIN. The list will be compiled as of February 1, 1968, and will be limited to members in good standing. After this date, the printer cannot accept additions or corrections. Paid-up "C" group members will appear automatically. Dues notices for "A" group members will be dispatched in the normal manner the latter part of December, 1967. In order for an "A" group member to appear in the new list renewal dues MUST be received in the St. Louis office by February 1, 1968.

The name and address that will be shown in the membership directory is the same as that which appears on the envelope carrying this BULLETIN. If there is an error, or a change is desired, please notify the secretary's office at once.

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

For that additional program fill-out the following sets are offered:

- ... Set of the newer tall bearded irises, including many of the recent award winners—top favorites—and selected garden scenes.
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- ... Set of various bulbous irises including reticulatas and juno irises. Also many species and hybrids of the beardless family including: Crested, Louisiana, Western natives, Spurias (including some of the most recent spurias just out), Siberians, and Japanese.
- ... Set of the ever popular, less expensive, fine bearded irises that have stood the test of time and grace any garden with their beauty and excellence.
- ... Set of irises at the AIS convention in Newark 1966. For those who could not go to Denver here is a picturization on film of many, many of the very newest irises. See them in the comforts of your own meeting room. Yes, you'll see new irises, gardens, and intimate glimpses of some of the iris personalities who attended the Newark convention.

Requests for slides should be made well in advance for proper scheduling, preferably 30 days or longer. Include a second date if possible. Give the exact date desired so that slides can be sent insured airmail. They are to be returned in the same manner. The rental fee is \$5.00, payable in advance, for each set of 100 slides. Make checks to the American Iris Society and mail with your receipts to:

ROBERT SCHREINER, Chairman, Slides Committee,
Route 2, Box 301, Salem, Oregon, 97303.

ACKNOWLEDGEMENT OF AUTHORSHIP

Based on an official statement by the President of the Aril Society, International, acknowledgement is hereby made of the authorship of Mrs. Ruth Pressey, Bayfield, Colorado, of Chapter 14, *AIS Handbook for Judges and Exhibitions*, 1965, entitled "Exhibition Judging of Aril and Arilbred Irises." Material for this chapter was submitted by the Aril Society, International. The Committee for Revision of the Handbook is glad to give this credit for a fine piece of work. The second printing of the publication will show this addition. William T. Bledsoe, Chairman

BULLETIN ADVERTISING RATES

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Rates per four issues—no discounts

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One page	60.00

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Annual	\$ 5.00	Sustaining	10.00
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Single Triennial	5.00	5.00	3.00	2.50
Family Annual	2.50	2.50		1.50
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Annual Supporting	3.00	3.00		3.00

IMPORTANT: Section dues, if paid through AIS, MUST be for the same duration as your AIS dues. AIS FAMILY member desiring SINGLE Section membership, PLEASE indicate which person is applying for Section membership.

TO ADVERTISERS IN THE COMMERCIAL DIRECTORY

Please note that all copy changes in Commercial Directory advertisements for 1968 MUST BE RECEIVED by the BULLETIN editor by November 15, 1967; otherwise advertisement will be run as in 1967. Cancellation of advertisements and new advertisements should be forwarded to the AIS secretary by November 15, 1967. Current advertisers will be billed in the normal manner by the AIS secretary for Commercial Directory space after November 15, 1967. Advertising rates are listed in this BULLETIN.

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Fine Iris and Hemerocallis
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